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F1.A1

Matti Slickline

Zone I classification electric powered Slickline Survey skid unit is designed to work on a drilling rig floor on land or off-shore applications. The winch hydraulic system is powered by a 20 HP electric motor providing a wide range of drum speed and pulling power for all wireline survey service work applications. Requires external electrical power source.

Options

* Weight indicator gauge and load cell
* Forklift pockets under skid
* 50 or 60 Hz power source
* Planetary drum drive
* Zone I applications

Features

* Steel base frame all welded construction
* Single point lift
* Compact design
* 20 HP electric motor power
* Close-loop hydraulic system
* Transmission drum drive
* Machined steel drum
* Mechanical band brake
* Prepped, primed and painted
* Measuring head
* Depth mechanical counter
* Dual spring balanced manual hand spooler
* Minimum maintenance system
* Friendly control design for operations

Drum Line Capacity

0.092": 7,600 M (25,000 ft)
0.108": 6,100 M (20,000 ft)
or equivalent metric line sizes

Skid Dimensions

1.1 m L x .92m W x 1.3m H (42 in L x 36 in W x 50 in H)
Skid Weight (Dry): 750 kg (1,650 lbs)

Winch Hoist Specification

Max Speed - Core: 125 mpm (400 fpm)
Max Speed - Rim: 400 mpm (1,300 fpm)
Max Pull - Core: 1,060 kg (2,300 lbs)
Max Pull - Rim: 635 kg (1,350 lbs)
Drive specifications can be adjusted to best fit service applications

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F1.A2

One-Piece logging unit

A multi-purpose logging unit that can be deployed exactly as a container, with all the transportation flexibility that this means. This unit can be operated directly from the transport platform. Simply open the doors, start the integrated power pack, and your winch is operational. Control room of this unit have enough space that can accomodate data acquisition equipment and other feasibility for the crew. This type of unit can be order for open-hole or cased-hole operations.

Dimensions & Weights

[L] 6.05 m [W] 2.44 m [H] 2.73 m [Weight] 9000 kg (Excluding roof mounted objects, winch drum and wire)

Hydraulic Drive System

* Powerful 400 bar (5800 psi) closed loop hydraulic system
* Variable displacement hydraulic pump and hydraulic motor
* Capable of fast acceleration at high speeds
* Capable of stable logging at low speeds
* Hydraulic reservoir: 200 lit
* Hydraulic dynamic braking
* Low maintenance system

Logging Operation (OH)

Based on 25000 ft 15/32” cable and tool weight 2000 lbs:

* Max. Line Speed at Core: 196 ft/min
* Max. Line Speed at OD: 660 ft/min

or

* Max. Line Pull at Core: 26455 lbs
* Max. Line Pull at OD: 10869 lbs

Winch System

* Designed for 25000 ft of 15/32” mono-conductor
* Winch drum is chain driven
* Electro-pneumatic band brake system
* Planetary gearbox

Depth & Tension System

* Heavy duty Measuring Head with electronic outputs for depth and tension for Hoistman panel
* Hydraulic driven spooling system
* Second encoder for Back-up depth digital display

Power Pack Features

* Diesel Engine: six-cylinder diesel engine providing 130 kW @ 2100 rpm
* Starter System: Electric
* Electrical System: 24V DC & 220V AC 50Hz
* Diesel reservoir: 350 lit
* Engine controls: Electronic throttle control from control room
* Hydraulic driven AC Generator 25 kW

Control panel

* Hydraulic pressure gauges
* Hydraulic oil temperature gauge
* Engine control panel
* Generator control panel
* Line tension value
* Brake lever / switch
* Touch screen Hoisting Panel
* Back-up depth panel
* Winch direction and speed control valve
* Spooler control

Features & Benefits

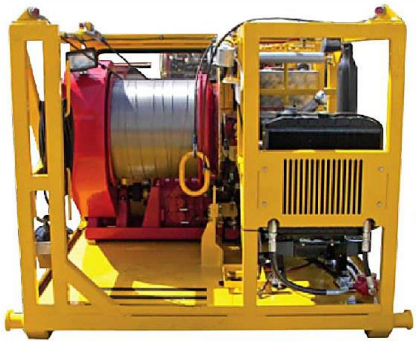
* Economical design
* Roof mounted air conditioners (2x 13500 btu)
* Weight and format ideal for offshore operations

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F1.A3

One-Piece Slickline unit

This rugged, compact and fully self-contained design unit is suitable for rapid deployment on onshore and offshore operations in temperate and tropical climate. The unit frame is constructed of carbon steel. Side-entry fork lift pockets make positioning easy and the unit can be rigged-up and operational in minutes. Suitable for mounting on a trailer or truck bed for heli-portable operations.

This unit is equipped with the unique FPP closed loop hydraulic drive system which makes fine control possible over a wide power band and is fitted with a powerful liquid-cooled diesel engine.

Dimensions & Weights

[L] 1.8 m [W] 1.5 m [H] 1.6 m [Weight] 2000 kg (Excluding winch drum and wire)

Hydraulic Drive System

* Powerful 350 bar (5000 psi) closed loop hydraulic system
* Variable displacement hydraulic pump and hydraulic motor
* Capable for fast acceleration at high speeds
* Hydraulic reservoir: 65 liter. 17.2 US Gallon
* Hydraulic dynamic braking
* Low maintenance system

Slickline Operations

Based on 30000 ft 0.108” and tool weight 125 lbs

* Max. Line Speed at Core: 1133 ft/min
* Max. Line Speed at OD: 1887 ft/min

or

* Max. Line Pull at Core: 7789 lbs
* Max. Line Pull at OD: 5574 lbs

Winch System

* Designed for 0.092”, 0.108” or 0.125”
* Winch drum is chain driven
* Operator adjustable manual handbrake
* Planetary gearbox

Depth & Tension System

* Heavy duty Measuring Head with integral load cell, Maximum line tension (0 – 4400 lbs)
* Weight indicator and mechanical depth counter (0-2000 lbs)

Power Pack Features

* Engine: four cylinder diesel engine providing 34.5 kW (46 HP)
* Starter System: Electric
* Electrical System: 12 VDC / 45A Alternator, 100 Ah battery
* Diesel reservoir: 38 liter, 10 US Gallon
* Engine controls mounted on engine: Start and stop / Hour counter / Monitoring and safety system

Control panel

* Hydraulic main pressure gauge
* Hydraulic control pressure gauge
* Hydraulic oil temperature gauge
* Line tension value
* Winch direction and speed control valve
* Throttle control

Features & Benefits

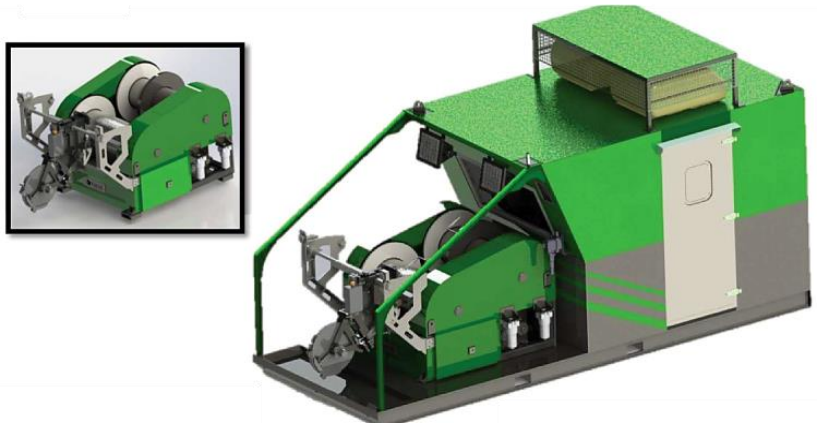
* Economical design
* Lightweight single lift unit, ideal for heli-portable operations
* Industry's most compact self-contained wireline winch ideal when space is at a premium
* Weight and format ideal for offshore operations
* Ergonomic, Safe and responsive operator controls
* Minimum servicing requirements equals maximum availability
* Fitted with drainage drip tray to eliminate environment impact and spillage from well fluids and lubricants

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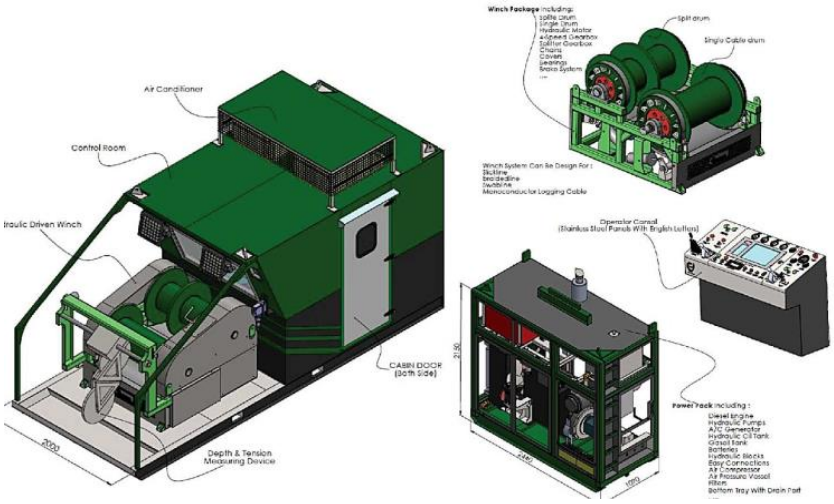
F1.A4

Skid Mounted Double Drum Slickline (Non-zone)

Model	*Description*	
Dimension	Control Skid 5.00m L x 2.00m W x 2.25m H	Power Pack 2.4 m L x 1.1 m W x 2.15 m H
Environment	Standard configuration can operate in -10 to +55 degrees C temperatures.	
Structure	STEEL frame all welded construction	
Drum Line Full Capacity	Drum 1 : 25000 ft of 0.108” Drum 2 : 25000 ft of 0.125”	
Hydraulic system	Closed-Loop Hydraulic System	
Measuring Heads	Manufactured by Faliz Pajouhesh pars with two encoder, loadcell and load pin	
Winch drive	hydraulic variable piston motor + 4Speed hydrostatic transmission + Splitter Gearbox	
Spooling system	Electronic Control and electro-pneumatic Auto Spooling system	
Power pack	Powerful 4 cylinder Perkins/Volvo/Isuzu/IDEM diesel engine	
Control panel	Clearly laid out ergonomic stainless steel control panel with English text as standard	
Depth & Tension display	6” Dial Gauge Weight Indicator and digital depth counter with backup depth display	
Feature	Integral enclosed operator cabin Climate control operator cabin with roof mounted air conditioners Four point lifting slings Integral forklift pockets AC & DC Projectors Hydraulic driven AC Generator Well head control equipment (optional)	

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F1.A5

Skid Mounted Double Drum Wireline Unit with PowerPack

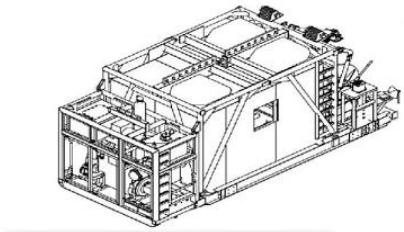
Model	*Description*	
Dimension	Control Skid 5.00m L x 2.00m W x 2.25m H	Power Pack 2.44m L x 2.15 m W x 1.09m H
Environment	Standard configuration can operate in -10 to +50 degrees C temperatures.	
Structure	STEEL frame all welded construction	
Drum Line Full Capacity	Single drum : 25000 ft of 1/4” Split drum : 25000 ft of (0.108” & 0.125”)	
Hydraulic system	Closed-Loop Hydraulic System	
Measuring Heads	NOV Elmar / Benchmark	
Winch drive	Variable hydromotor Rexroth + 4Speed FUNK transmission + Splitter Gearbox	
Spooling system	Hydraulic control	
Power pack	Powerful 4 cylinder Perkins/Volvo/Isuzu diesel engine	
Control panel	Clearly laid out ergonomic anodized aluminum control panel with English text as standard	
Depth & Tension display	Operates in conjunction with CombiGauge hydro-mechanical combined depth and tension gauge	
Feature	Integral enclosed operator cabin Climate control operator cabin Four point lifting slings Integral forklift pockets	

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F1.A6

Skid mounted logging unit (Non-Zone)

Model	*Description*	
Dimension	Control Skid 5.4m L x 2.5m W x 2.9m H	Power Pack 1.72m L x 2.5m W x 2.5m H
Environment	Standard configuration can operate in -10°C ~ +55°C temperatures.	
Structure	STEEL frame all welded construction	
Drum Line Capacity	Full capacity : 7,600 m (25,000 ft) Designed for 15/32” Multi Conductor Cable.	
SheetMetal	Aluminum sheets for outside and composite sheet for interior. All walls has been soundproofed and insulated for heat transfer.	
Hydraulic system	Closed-Loop Hydraulic System Variable displacement hydraulic pumps and hydraulic motor.	
Measuring Heads	AM5K Benchmark Wireline With load cell and encoder for tension and depth.	
Spooling system	Hydraulic shock absorbing balanced measuring head support arm. Hydraulically assisted measure head horizontal spooling system.	
Power pack	Powerful 6 cylinder IDEM Diesel Engine	
Control panel	Fiber-Glass / Stainless Steel Body With English Engraved letters and also it has Touchscreen hoistpanel & Back-up Depth Panel for logging operations.	
Electrical	STAMFORD Hydraulic Driven Generator 25 KW & AC Rig Connector for AC Power. 24v DC Batteries For DC Power.	
Feature	Roof mounted Air Conditioners (Colman match) x3 Climate control operator cabin Four point lifting slings Electrical Reels for Earth connection, Portable Lights, Vice, Line Oiler, Hand Pump, ...	

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F1.A7

Skid Mounted Wireline Unit with Power Pack

Model	*Description*	
Dimension	Control Skid 3.7m L x 1.7m W x 2.7m H	Power Pack 1.8m L x 1 m W x 1.7m H
Environment	Standard configuration can operate in -10 to +50 degrees C temperatures.	
Structure	STEEL frame all welded construction	
Drum Line Full Capacity	0.92”- 45000 ft 0.108”-35000 ft 3/16”-11000 ft	
Hydraulic system	Open-Loop Hydraulic System	
Measuring Heads	Faliz Factory OR Benchmark	
Spooling system	Hydraulic shock absorbing balanced measuring head support arm. Hydraulically assisted measure head horizontal spooling system.	
Power pack	Powerful 4 cylinder Perkins diesel engine (80HP & 71 KW)	
Control panel	Clearly laid out ergonomic anodized aluminum control panel with English text as standard	
Depth & Tension display	Operates in conjunction with MARTIN DECKER GAUGE hydro-mechanical combined depth and tension gauge	
Feature	Integral enclosed operator cabin Climate control operator cabin Four point lifting slings Integral forklift pockets	

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F1.A8

Skid Non Zone With Powerpack

Skid package unit is designed to work in markets requiring portable, compact equipment for logging service work applications. The 80 hp diesel power pack skid provides the hydraulic winch skid with a wide range of drum speed and pulling power for all case or open hole logging service work applications and provides climate controlled operator's cabin.

Options

* Measure head
* Weight indicator gauge and load cell
* Electronic measuring system
* Spooler system
* Heli-portable
* Zone II specifications

Features

* STEEL frame all welded construction
* Integral enclosed operator cabin
* Climate control operator cabin
* Four point lifting slings
* Integral forklift pockets
* Light weight
* Compact design
* 80 HP diesel power pack
* Close-loop hydraulic system
* Machined steel drum
* Air activated band brake
* Prepped, primed and painted
* Minimum maintenance system
* Friendly control design for operations

Drum Line Capacity

Typical drum design can hold up to 7,600 M (25,000 ft) of 7/32" - 1/4" - 5/16" Braided Line or 15/32" Multi-Conductor or equivalent metric line sizes

Skid Dimensions

Control Skid: 4.2m L x 2.2m W
Power Skid: 2.7m L x 1.2m W

Winch Hoist Specification

Max Speed - Core: 180 mpm (370 fpm)
Max Speed - Rim: 430 mpm (880 fpm)
Max Pull - Core: 12,000 kg (26,000 lbs)
Max Pull - Rim: 7,000 kg (15,400 lbs)
Drive specifications can be adjusted to best fit service applications

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F1.A9

Skid Zone II With Powerpack

Skid package unit is designed to work in markets requiring portable, compact equipment for logging service work applications. The 80 hp diesel power pack skid provides the hydraulic winch skid with a wide range of drum speed and pulling power for all case or open hole logging service work applications and provides climate controlled operator's cabin.

Options

* Measure head
* Weight indicator gauge and load cell
* Electronic measuring system
* Spooler system
* Heli-portable
* Zone II specifications

Features

* STEEL frame all welded construction
* Integral enclosed operator cabin
* Climate control operator cabin
* Four point lifting slings
* Integral forklift pockets
* Light weight
* Compact design
* 80 HP diesel power pack
* Close-loop hydraulic system
* Machined steel drum
* Air activated band brake
* Prepped, primed and painted
* Minimum maintenance system
* Friendly control design for operations

Drum Line Capacity

Typical drum design can hold up to 7,600 M (25,000 ft) of 7/32" - 1/4" - 5/16" Braided Line or 15/32" Multi-Conductor or equivalent metric line sizes

Skid Dimensions

Control Skid: 4.2m L x 2.2m W
Power Skid: 2.7m L x 1.2m W

Winch Hoist Specification

Max Speed - Core: 180 mpm (370 fpm)
Max Speed - Rim: 430 mpm (880 fpm)
Max Pull - Core: 12,000 kg (26,000 lbs)
Max Pull - Rim: 7,000 kg (15,400 lbs)
Drive specifications can be adjusted to best fit service applications

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F1.A10

Slickline Skid With PowerPack

Model	*Description*	
Dimension	Control Skid 3.7m L x 1.7m W x 2.7m H	Power Skid 1.8m L x 0.9m W x 1.7m H
Environment	Basic equipment in ZONE II configuration Standard configuration can operate in -10 to +50 degrees C temperatures.	
Structure	STEEL frame all welded construction	
Drum Line Capacity	0.92”- 45000 ft 0.108”-35000 ft 3/16”-11000 ft	
Hydraulic system	Closed-Loop Hydraulic System Variable displacement hydraulic pump and hydraulic motor.	
Measuring Heads	Accepts Benchmarks models.	
Spooling system	Hydraulic shock absorbing balanced measuring head support arm. Hydraulically assisted measure head horizontal spooling system.	
Power pack	Powerful 6 cylinder Perkins/Volvo/Isuzu diesel engine providing 180 HP (134Kw)	
Control panel	Clearly laid out ergonomic anodized aluminum control panel with English text as standard	
Depth & Tension display	Operates in conjunction with CombiGauge hydro-mechanical combined depth and tension gauge	
Feature	Integral enclosed operator cabin Climate control operator cabin Four point lifting slings Integral forklift pockets Heli-portable	

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F1.A11

Surveyor & Retriever unit

This Super light slickline unit is designed for running & retrieving survey tools and performing light duty wireline operations such as gauge cutter, LIB and drift runs. It has the optional diesel/hydraulic or electric/hydraulic power unit. The frame incorporates forklift pockets in the base for ground handling and single point lifting eye for crane handling. It is designed to be lightweight yet robust and it is particularly suitable for applications where unit weight or footprint size is restricted.

The unit is fitted with removable guards for ease of access during routine maintenance. The open console style allows the operator to comfortably stand at the unit with all the necessary controls clearly identified with engraved stainless steel labels.

Dimensions & Weights

With Frame: [L] 1.20 m [W] 1.29 m [H] 1.83 m [Weight] 1800 kg
Without Frame: [L] 1.10 m [W] 1.12 m [H] 1.43 m [Weight] 1300 kg

Hydraulic Drive System

* Closed loop hydraulic system
* Stepless transmission
* Hydraulic dynamic braking
* One handed operation
* Low maintenance system
* Operators adjustable handbrake

Slickline Operations

* Max. Line Speed at Core: 451 ft/min
* Max. Line Speed at Rim: 1200 ft/min
* Max. Line Pull at Core: 1480 lbs +
* Max. Line Pull at Rim: 520 lbs +

Winch System

* 25000 ft 0.108” or 0.092”

Depth & Tension System

* Traditional measuring heads: 0.082”, 0.092” & 0.108” (Imperial or Metric)
* Weight Indicator System with 100 ft of hose (0 - 2000 lbs)

Electric Power Pack (Optional)

* Motor 20 HP (15KW) 3Phase/480/60 Hz (suitable for Zone 1 environments)
* Starter – Direct-on-line
* Different rating motors available on request

Features & Benefits

* Lightweight
* Heliportable
* Designed for ease of operation
* Full Stepless range of line speed and pulls
* Compact unit
* Ease of maintenance and drum change-out
* Ergonomically designed for operator comfort
* Flexible for various zoned requirements
* Ease of transportation
* Small footprint
* Single point lift (Without frame)
* Excellent low speed control
* Easily removable guards on all moving parts
* Integral power pack
* Power unit option (diesel/electric)
* Integral fork lift pockets

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F1.A12

Three-Piece logging unit

Containerized three-piece wireline winch unit available in single drum configuration, and in two cabin lengths. With the complexity and sophistication of current well logging technology, the space and power demands of three racks full of computer, communications equipment and other peripherals can be hard to meet. Moreover, deep-hole logging operations require a powerful but precisely controlled winch. The standard configuration comprises a self-contained power pack, sophisticated logging and control cabin and winch module in a Non-zone configuration.Unit is also available in a Rig Safe or Zone II configuration.

Dimensions & Weights

Power pack:
[L] 1.35 m [W] 2.44 m [H] 2.7 m [Weight] 4650 kg
Control unit:
[L] 3.15 m [W] 2.44 m [H] 3.0 m [Weight] 5200 kg
Control unit (Optional long version):
[L] 3.81 m [W] 2.44 m [H] 3.0 m [Weight] 5600 kg
Winch unit (Excluding winch drum and wire):
[L] 2.1 m [W] 2.44 m [H] 2.64 m [Weight] 4150 kg

Hydraulic Drive System

* Powerful 400 bar (5800 psi) closed loop hydraulic system
* Variable displacement hydraulic pump and hydraulic motor
* Capable of stable logging at low speeds
* Hydraulic reservoir: 200 lit
* Hydraulic dynamic braking
* Low maintenance system

Logging Operation (OH)

Based on 25000 ft 15/32” cable and tool weight 2000 lbs:
* Min. Line Speed at Core: 3 ft/min
* Min. Line Speed at OD: 6 ft/min
* Max. Line Pull at Core: 22000 lbs
* Max. Line Pull at OD: 11465 lbs

Winch System

* Designed for 25000 ft of 15/32” mono-conductor
* Winch drum is chain driven
* Electro-pneumatic band brake system
* Planetary gearbox

Power Pack Features

* Diesel Engine: six cylinder diesel engine providing 168 kW @ 2100 rpm
* Starter System: Electric
* Electrical System: 24V DC & 220V AC 50Hz
* Diesel reservoir: 350 lit
* Engine controls: Electronic throttle control from control room

Hydraulic driven AC Generator 25 kW

Control panel



* Hydraulic pressure gauges
* Hydraulic oil temperature gauge
* Engine control panel
* Generator control panel
* Line tension value
* Brake lever / switch
* Touch screen Hoisting Panel
* Back-up depth panel
* Winch direction and speed control valve
* Spooler control

Features & Benefits

* Economical design
* Roof mounted air conditioners (2x 13500 btu)
* Weight and format ideal for offshore operations

Options

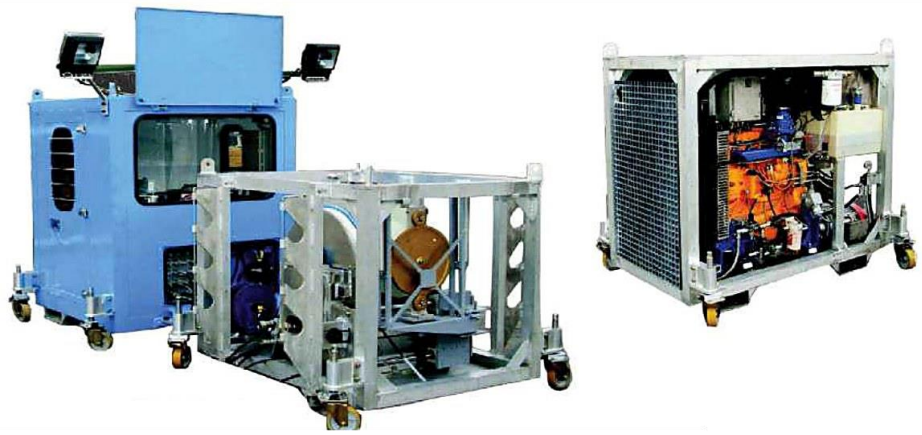


* Rig-Safe / Zone II configured
* Disc Brake System
* Heavy duty Captain Chair
* PLC based control system
* PTZ Camera
* Additional industrial computer

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F1.A13

Three-piece Slickline unit

The three-piece slickline unit comprising of a separate power pack module, separate short length enclosed operator cabin module and separate winch module. Each module can be lifted separately. This unit is suitable for cased hole slickline and braided line operations.

Dimensions & Weights

Power pack module:
[L] 1.8 m [W] 1.45 m [H] 1.65 m [Weight] 1300 kg
Control room module:
[L] 1.85 m [W] 1.3 m [H] 1.85 m [Weight] 1300 kg
Winch module:
[L] 1.85 m [W] 1.3 m [H] 1.4 m [Weight] 1500 kg

Power Pack Module

* Water cooled diesel engine 85 hp
* Mechanical recoil inertia spring starter
* Closed loop hydraulic system with variable displacement pump and motor
* Hydraulic reservoir: 280 liter
* Fuel tank capacity: 75 liter
* Storage for hydraulic hoses
* Low maintenance system
* Engine local panel:
  - Engine oil pressure gauge
  - Engine coolant (Water) temperature gauge
  - Mechanical engine shutdown lever
  - Combined engine RPM & Hour meter

Slickline Operations

Based on 25000 ft 0.125” and tool weight 150 lbs
* Max. Line Speed at Core: 937 ft/min
* Max. Line Speed at OD: 1330 ft/min
* Max. Line Pull at Core: 8462 lbs
* Max. Line Pull at OD: 6404 lbs

Features & Benefits

* Economical design
* Four-point lift unit, ideal for heavy duty operations
* Weight and format ideal for offshore operations

Control Room

* Air conditioned
* Bench for 3 persons
* Control Panel:
  - Digital data logger to record and display real-time depth, tension and line speed. Data can be downloaded to a USB flash memory.
  - Hydraulic main pressure gauge
  - Hydraulic control pressure gauge
  - Hydraulic oil temperature gauge
  - Line tension value
  - Winch direction and speed control valve
  - Throttle control
  - BOP Control
  - Stuffing Box Control
* Two flood light that can be remove during transportation
* Foldable foot steps for access to roof mounted objects

Winch Module

* Drum capacity: 25000 ft of .108” or 0.125” wire
* Chain drive
* Closed loop hydraulic system for extremely high controllability and fuel speed / torque range.
* Foldable 16” traditional measuring device with optical encoder
* Hydraulic load cell with 100 ft hose
* Side racks to carry lubricators
* Brake System:
  - Positive brake system (Always drum is under brake, brake is released when air pressure is applied.
  - Pneumatically operated non asbestos band brake mounted on drum directly

Options

* Zone II configuration
* Rigsafe configuration

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F1.A14

Two-Piece Logging unit

This Two-Piece logging unit is a heavy duty skid mounted unit that can be configured for operating in Non-zone, Rig-Safe or Zone II conditions. This unit is suitable for well logging operation and winch section of unit can be designed according to customer's request. Control room have enough space that can accommodate data acquisition equipment and other feasibility for the crew.

Dimensions & Weights

Control unit:
[L] 5.4 m [W] 2.5 m [H] 2.9 m [Weight] 9000 kg (Excluding winch drum and wire)

Power pack:
[L] 1.6 m [W] 2.5 m [H] 2.5 m [Weight] 3500 kg

Hydraulic Drive System

* Powerful 400 bar (5800 psi) closed loop hydraulic system
* Variable displacement hydraulic pump and hydraulic motor
* Capable of stable logging at low speeds
* Hydraulic reservoir: 200 lit
* Hydraulic dynamic braking
* Low maintenance system

Logging Operation (OH)

Based on 25000 ft 15/32” cable and tool weight 2000 lbs:
* Max. Line Speed at Core: 370 ft/min
* Max. Line Speed at OD: 880 ft/min
* Constant low speed: 3~5 ft/min or
* Max. Line Pull at Core: 26000 lbs
* Max. Line Pull at OD: 15400 lbs

Winch System

* Designed for 25000 ft of 15/32” mono-conductor
* Winch drum is chain driven
* Electro-pneumatic band brake system
* Planetary gearbox

Depth & Tension System

* Heavy duty Measuring Head with electronic outputs for depth and tension for Hoistman panel

Power Pack Features

* Diesel Engine: six cylinder diesel engine providing 168 kW @ 2100 rpm
* Starter System: Electric
* Electrical System: 24V DC & 220V AC 50Hz
* Diesel reservoir: 350 lit
* Engine controls: Electronic throttle control from control room
* Hydraulic driven AC Generator 25 kW

Control panel



* Hydraulic pressure gauges
* Hydraulic oil temperature gauge
* Engine control panel
* Generator control panel
* Line tension value
* Brake lever / switch
* Touch screen Hoisting Panel
* Back-up depth panel
* Winch direction and speed control valve
* Spooler control

Features & Benefits

* Economical design
* Roof mounted air conditioners (3x 13500 btu)
* Weight and format ideal for offshore operations

Options



* Rig-Safe / Zone II configured
* Direct drive winch
* Disc Brake System
* Heavy duty Captain Chair
* PLC based control system
* PTZ Camera
* Additional industrial computer

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F1.A15

Two Piece Skid Mounted Slickline Unit

The two piece skid mounted slickline unit is designed for running & retrieving survey tools and performing light duty wireline operations. It consists of a control skid and a separate powerpack skid, providing flexibility in transportation and location setup. The unit is compact, robust and suitable for land and remote site operations.

Key Features

* Two piece skid design (control skid + powerpack skid)
* Hydraulic drive system
* Closed loop hydraulic system
* Compact and robust construction
* Suitable for land and remote locations
* Easy maintenance and access
* Forklift pockets and lifting points

Main Applications

* Running and retrieving survey tools
* Gauge cutter operations
* LIB and drift runs
* Light duty wireline operations

Description	*Specifications*
Control Skid Dimensions	4.2 m x 2.2 m
Powerpack Skid dimensions(L x W)	2.7 m x 1.2 m
Total Weight (Dry)	12,500 kg (approx.)
Drum Line Capacity	0.092” – 45,000 ft | 0.108” – 35,000 ft | 3/16” – 11,000 ft
Hydraulic System	Closed loop hydraulic system
Engine (Powerpack)	Diesel engine (e.g. Perkins/Volvo/Isuzu) – 180 HP (134 kW)
Transmission	Stepless transmission
Operating Temperature	-10 °C – +50 °C (standard configuration)

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F1.A16

Two Piece Slickline unit

The two piece slickline unit is designed for running & retrieving survey tools and performing light duty wireline operations. It features a compact design with a separate control skid and powerpack skid, offering excellent mobility and ease of operation. The unit is engineered for reliable performance in demanding field conditions.

Key Features

* Two-piece skid design (control skid + powerpack skid)
* Hydraulic drive system
* Closed loop hydraulic system
* Compact and robust construction
* Easy maintenance and access
* Forklift pockets and lifting points
* Suitable for land and remote locations

Main Applications

* Running and retrieving survey tools
* Gauge cutter operations
* LIB and drift runs
* Light duty wireline operations

Description	*Specifications*
Control Skid Dimensions	4.2 m x 2.2 m
Powerpack Skid dimensions(L x W)	2.7 m x 1.2 m
Total Weight (Dry)	12,500 kg (approx.)
Drum Line Capacity	0.092” – 45,000 ft | 0.108” – 35,000 ft | 3/16” – 11,000 ft
Hydraulic System	Closed loop hydraulic system
Engine (Powerpack)	Diesel engine (e.g. Perkins/Volvo/Isuzu) – 180 HP (134 kW)
Transmission	Stepless transmission
Operating Temperature	-10 °C – +50 °C (standard configuration)

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F1.B1

Logging truck

Model	*Description*
Total Dimension	9000 mm Length x 2500 mm Width x 3800 mm Height
Truck	6x4
Structure	Steel, Aluminum & Composite (Profiles & Sheets)
Hydraulic System	Closed Loop (PTO Driven)
Hydro Pump	Rexroth (Series 56 & 90)
Winch - Large Drum	Cable Size : 15/32” – Full Capacity : 7260 m
Winch - Small Drum	Cable Size : 7/32” – Full Capacity : 8000 m
Spooler & Measuring Head	Benchmark Wireline / Faliz Factory
Electrical - AC	Rig Power Connector 25 Kw Hydraulic Generator Auxiliary Diesel Generator
Electrical - DC	24 v – (170 Ah) Battery x2
Tools box	Capable to Locate Logging Tools (Max Length = 6000 mm)
Operation Type	Cased Hole & Open Hole

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F1.B2

Slickline truck

SLICKLINE TRUCK is a single axle heavy duty van unit for case hole logging and perforating service work applications. This unit is designed to operate in an oilfield environment including artic, desert and tropical conditions and can be modified to perform other wireline service work applications.

Winch Hoist Specification

LA1-400 Series Drawworks:
Direct drum mount 2 spd planetary gear box with 2 spd hydraulic motor Drive System

Drum Line Capacity:
Drum: 5/16” E-Line 6,100 M (20,000 ft) of ea.

Drum Drive Performance:
Drum Speed - Up to: 400 mpm (1,300 fpm)
Pulling Power - Up to: 5,600 kg (12,500 lbs)
Has excellent low speed for logging, as low as 1 mpm.
Additional drum drive system options available to best meet specific service work applications.

Wireline Accessories Options

Drawworks:
* Multiple size drum drawworks to fit desired braided E-Line sizes, split drum available

Spooling:
* Linear bar spooler systems or Overhead spooler system

Measuring System:
* In-line measure heads or conventional measure heads
* Mechanical or Electronic display meters

Generator:
* 10 kw hydraulic drive generator

Grease Injector:
* 5K hydraulic onboard grease injector system

Van Dimensions

5.45m L x 2.48m W (214 in L x 98 in W)
Van dimensions may vary to best fit end user's requirements

Features

* 190 series van body design has large radius rear body style with tarpaulin roof cover over drawworks compartment
* 100% aluminum frame all welded construction
* All weather thermal insulation
* Light weight design
* Optimized external storage compartments and tool racks
* Large all weather climate controlled operator's cabin
* Ergonomic design control panel
* Low noise level
* Operator's captain's chair
* Prepped, primed and painted

Hydraulic System:
* HD close-loop hydraulic system
* Minimum maintenance design systems
* Friendly control design for operations

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F1.B3

Truck Mounted Logging Unit

This is a 6x4 tandem axle heavy duty van unit for open-hole and cased-hole logging and perforating service work applications. This unit is designed to operate in arctic, desert and tropical oilfield environments and can be modified to perform other wireline service work applications. It has a PTO driven hydraulic system.

Dimensions & Weights

[L] 10.5 m [W] 2.6 m [H] 4 m [Weight] 26500 kg

Hydraulic Drive System

* Powerful 400 bar (5800 psi) closed loop hydraulic system
* Variable displacement hydraulic pump and hydraulic motor
* Hydraulic reservoir: 250 lit
* Hydraulic dynamic braking
* Low maintenance system

Winch System

* Direct Drive Double Drum
* small drum: 25000 ft of 7/32” mono-conductor
* large drum: 25000 ft of 15/32” multi-conductor
* Disk brake system
* Two speed planetary transmission for large drum
* single speed planetary transmission for small drum

Logging Operation (OH)

Based on 25000 ft 15/32” cable and tool weight 2000 lbs:

* Min. Line Speed at Core: 3 ft/min
* Min. Line Speed at OD: 6 ft/min
* Max. Line Pull at Core: 22000 lbs
* Max. Line Pull at OD: 11000 lbs

Logging Operation (CH)

Based on 25000 ft 7/32” cable and tool weight 350 lbs:

* Max. Line Speed at Core: 499 ft/min
* Max. Line Speed at OD: 1367 ft/min
* Max. Line Pull at Core: 10615 lbs
* Max. Line Pull at OD: 6195 lbs

Control panel

* Hydraulic pressure gauges
* Hydraulic oil temperature gauge
* Engine control panel
* Generator control panel
* Line tension value
* Brake lever / switch
* Touch screen Hoisting Panel
* Back-up depth panel
* Winch direction and speed control valve
* Spooler & Re-spooler control

Features & Benefits

* Air conditioners
* Hydraulic driven AC generator 25 KW
* Rising support for small drum
* Line oiller with remote control on the panel
* Heavy duty measuring head output signal with tension/depth
* Low maintenance system
* Computer racks
* Long toolsbox for perforation guns
* Side toolsbox for logging tools
* Airbag system for protecting logging tools in transportation
* Light table
* Tea Maker
* Drawers & Cabinets for small tools
* Door with panic exit device

Options

* Heavy duty Captain Chair
* PLC based control system
* PTZ Camera
* Additional industrial computer

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F1.B4

Truck Mounted Wireline Unit

This Wireline unit is a self contained removable wireline container mounted on the rugged truck with a heavy duty 6x4 chassis. This container is fitted with ISO corner fittings to secure to the chassis and lifting for positioning on the well site or removal from the truck. This unit can be configured with a single drum or double drum winch with all range of slickline wire sizes and also can be fitted with mono-conductor cable for cased-hole logging services. This unit has an integrated power pack and also has a PTO driven hydraulic system for emergency situation. The control room of unit can be designed with full PLC-Based electronic control panel on a heavy duty ergonomic captain chair or classic electro-hydraulic control panel.

Dimensions & Weights

Container (Without Truck, roof mounted objects & Winch):
[L] 6.06 m [W] 2.44 m [H] 2.55 m [Weight] 9500 kg

Hydraulic Drive System

* Powerful 400 bar (5800 psi) closed loop hydraulic system
* Variable displacement hydraulic pump and hydraulic motor
* Hydraulic reservoir: 280 lit
* Hydraulic dynamic braking
* Low maintenance system

Winch System

* Default: Chain Drive Double Drum
* First drum: 25000 ft of 7/32” mono-conductor
* Second drum (Split): 25000 ft of 0.108” & 25000 ft of 0.125” wire
* Electro-pneumatic band brake system
* 4 Speed Hydrostatic transmission

Logging Operation (CH)

Based on 25000 ft 7/32” cable and tool weight 350 lbs:
* Max. Line Speed at Core: 499 ft/min
* Max. Line Speed at OD: 1367 ft/min
* Max. Line Pull at Core: 10615 lbs
* Max. Line Pull at OD: 6195 lbs

Slickline Operation

Based on 25000 ft 0.125” wire and tool weight 150 lbs:
* Max. Line Speed at Core: 937 ft/min
* Max. Line Speed at OD: 1330 ft/min
* Max. Line Pull at Core: 10189 lbs
* Max. Line Pull at OD: 6725 lbs

Power Pack Features

* Diesel Engine: four cylinders diesel engine providing 129 kW @ 2100 rpm
* Starter System: Electric
* Electrical System: 24V DC & 220V AC 50Hz
* Diesel reservoir: 350 lit
* Engine controls: Electronic throttle control from control room
* Hydraulic driven AC Generator 25 kW
* Hydraulic Driven Air Compressor

Classic Control panel

* Hydraulic pressure gauges
* Hydraulic oil temperature gauge
* Engine control panel
* Generator control panel
* Line tension value
* Brake lever / switch
* Touch screen Hoisting Panel
* Back-up depth panel
* Winch direction and speed control valve
* Spooler & Re-spooler control

Features & Benefits

* Roof mounted air conditioners
* BOP control package
* Re-spooler system
* Emergency PTO driven hydraulic system

Options

* Rig-Safe / Zone II configured
* Heavy duty Captain Chair
* PLC based control system
* PTZ Camera

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F1.C1

Drums

Heavy-duty industrial drums engineered for reliable spooling and handling of wire rope, steel cable, hose and slickline. Machined and balanced for smooth, low-vibration rotation under continuous duty.

Available in multiple diameters and widths, custom-built to match motor, gearbox and mounting requirements for winches, cranes, hoists and cable production lines.

Features

* All-welded steel construction
* Precision-machined drum face
* Reinforced side flanges
* Keyed / splined or flanged shaft options
* Corrosion-resistant coating
* Prepped, primed and painted finish
* Static and dynamically balanced
* Grooved or smooth-face options
* Custom bore and hub fitting
* Minimum maintenance design

Options

* Grooved (lebus) or smooth barrel
* Custom diameter and face width
* Flange-mounted or shaft-mounted drive
* Integrated gear ring / sprocket
* Alternative materials on request
* Custom paint / coating spec

Applications

* Wire rope and cable winches
* Cranes and hoisting equipment
* Marine and offshore units
* Cable / wire production lines
* Wireline and slickline units

Build Notes

Dimensions, line capacity, material grade and load ratings are configured per project. Contact us with your application details for a tailored specification sheet.

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F1.D1

70 ft Lightweight Slickline Wireline Mast

This lightweight Slickline/Wireline Mast is designed for use as a self-supporting structure for slickline/wireline operations. The unit is simple to operate, robust and lightweight and has a 7000 lbs line pull capacity.

The mast is positioned with the help of removable jacking castors, and hydraulically extended. The mast can be setup by two experienced operators in around few minutes. It is designed for free standing use, but should be secured to the deck with additional guy ropes if used in winds above 30 mph.

Model	*Description*
Operational Dimensions	9.5 m Length x 9.3 m Width x 21.7 m Height
Transporting Dimensions	7.7 m Length x 2.6 m Width x 2.1 m Height
Gross Weight	1300 Kg, (2866 lbs)
Features	• Robust Square & Tubular Profile Construction • High Grade Aluminum Construction • Hydraulically Operated Boom-Locking Pins • Top Wireline Sheave Supplied with mast • 4-point Lift • Hydraulically Erected • Guy Wires Supplied with tensioners • Emergency Shutdown System • Two Jacking Castors • Additional Electrical Power-Pack to Provide Hydraulic Power System.
Max. Wireline Pull on line	7000 lbs
Max. SWL (Safe Working Load)	14000 lbs
Max. Rigging Up/Down Wind Speed	30 mph (miles per hour)
Max. Unguyed Operational Wind Speed	35 mph (miles per hour)
Max. guyed Operational Wind Speed	70 mph (miles per hour)

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F1.E1

Anti-Explosion Cabins Positive Pressure

Anti-explosion cabins positive pressure Faliz Pajuhesh Pars Company is made based on the most valid and up-to-date standards of risk areas, including DNV 2.7-2, DNV 2.7-1, NFPA496, ATEX, IECEx standards.

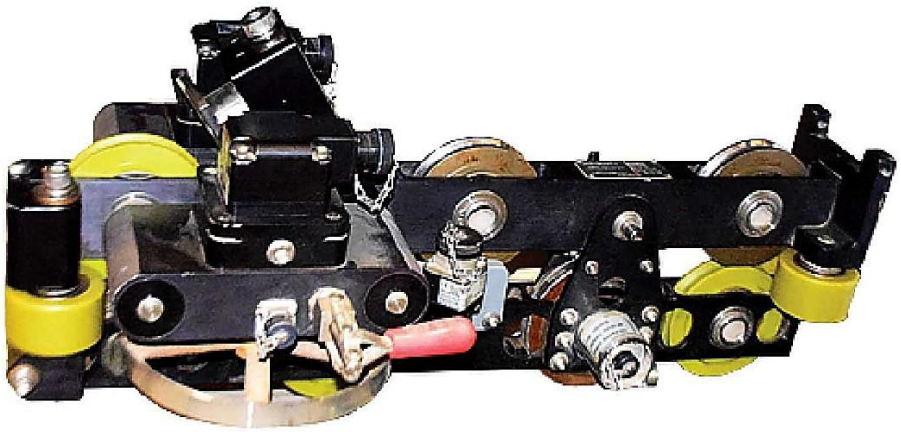
All cabins of Faliz Pajuhesh Pars Company are custom built and designed according to the needs of the customers of this company. Cabin structures are designed, constructed according to valid offshore standards DNV 2.7-1 or EN12079 and can be used at very high or very low temperatures with very high durability. The body of these cabins can be built in A60 class fireproof. According to customer needs, Faliz Pajuhesh Pars positive pressure anti explosion cabins can be built for use in Zone 1 and Zone 2 or ZONE II Hazardous area.

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F1.E2

Logging Measuring head

This Wireline Measuring Device is a compact and lightweight device for measuring both wireline depth and tension. It will work on both open and cased-hole wireline units which allows standardization on a measuring head for all types of operations. It is designed to be mounted to the spooling arm of a wireline unit.

This product uses dual spring-loaded measuring wheels to measure the amount of wireline moving in or out of the borehole. The measuring wheels are coupled to optical encoders that transmit electrical signals to the hoistman's panel and/or logging computer, also it uses an electronic load pin to measure wireline tension. Three wheels are used to create a force on the load pin. The wheel mounted on the load axle is offset from the two guide wheels. This creates a slight bend in the cable. As wireline tension increases the bending of the cable creates a corresponding force on the strain-gauged load axle. This electronic signal which represents line wireline tension is transmitted to the hoistman's panel and/or logging computer.

Dimensions & Weights

[L] 0.704 m [W] 0.447 m [H] 0.348 m [Weight] 27 kg

Line Size Capability

* 0.190” to 0.875” Diameter (4.8 mm to 22 mm)

Maximum Tension

* 25000 lbs (11340 kg)

Encoder

* 1200 PPR (Others available)

Backup Counter

* 4 PPR Quadrature

Load Pin

* Passive low voltage
* Differential voltage
* 4 ~ 20 mA current loop

Features

* Straight-line measurement (cable sizes can be changed without affecting depth measurement)
* Dual Tangential Measuring Wheels made from specially hardened Steel (non magnetic and non wear ceramic wheels also available)
* Lightweight design with integral tension (makes for easier high angle rigup)
* Device opens up to provide easy cable installation and removal, by removing a single pin
* Includes both horizontal and vertical guide rollers (to minimize measuring wheel loading)
* Rollers are oversized (to increase reliability and reduce maintenance)
* Non loaded guide rollers are made from composite material (to reduce Weight and cable wear)
* Rear, Center, overhead, or bottom spooling arm mounts available
* Tension Load Axle and amplifier (can be configured for different outputs)
* Digital Magnetic Mark Detector
* Accepts single or dual encoders
* Supports fully independent backup depth measuring system (using a magnetic pickup)
* Encoder, Mark Detector, and Tension amplifiers (available for Zone I or Zone II)
* Anodized aluminum frame
* All steel parts are plated or stainless steel
* All bearings are stainless steel

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F1.E3

Measuring head

This product is a combined hydro-mechanical wireline depth and tension measurement system enabling both wireline depth and tension signals to be provided to a separate remote display.

Accurate depth display is achieved by means of mechanical cable output from the depth gearbox mounted to the measuring head. This measuring head is a three-wheel wrap around design comprising two upper wheels and one lower wheel. Wireline replacement can be achieved without cutting of the rope socket.

Dimensions & Weights

[L] 1.13 m [W] 0.34 m [H] 1.00 m [Weight] 105 kg

Slickline Capability

* Designed for Super light duty (0.092”) to heavy duty (0.160”) Slickline operations

Swabbing and Fishing Capability

* Designed for light duty (3/16” + 1/4”) braided line operations

Logging Capability

* Designed for light duty (3/16” to 1/4”) mono-conductor line operations

Transmission

* Used with different ratio single or dual output depth gearbox fitted to measuring head
* Precision machined depth gearbox systems available for all wireline sizes
* Short cable between depth gearbox and mechanical depth counter provide excellent depth accuracy

Depth & Tension System

* Configurable for feet or meters
* Configurable for lbs or kg

Features & Benefits

* Suitable for 0.092” to 1/4” operations
* 3 Wheel wrap around design with two separate upper wheels & one single lower wheel
* Upper section & lower section are hinged with one or two integral hydraulic load cell for tension sensing
* Wireline with rope socket or logging head intact can be removed from side of measuring head
* Upper two wheels rotate independently to remove risk of wireline rubbing
* Aluminum main body construction with stainless steel wheels & components
* Maximum line tension 0-8800 lbs

Options

* Range of precision machined single or dual output gearboxes for accurate depth measurement
* Electro-hydraulic pressure transducer system for electronic tension signal to Smart Monitor
* Optical encoder for electronic depth & speed signal to Smart Monitor
* Electro-pneumatic automatic wire spooling system
* Wire oiler tank with adjustable nozzle control
* Load pin (Ex)
* Second Encoder
* Calibration tool

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F2.A

Wireline Surface Equipment

Description

Surface pressure-control and rig-up equipment used to conduct slickline and braided-line operations at the wellhead, including lubricators, stuffing boxes, grease injection heads and line-wipers.

Designed for fast rig-up/rig-down on land and offshore locations, with components sized to match the well's pressure rating and line diameter.

Applications

- Slickline & braided-line operations
- Well intervention rig-up
- Pressure control at the wellhead
- Land and offshore service units

Features:

- All-welded, pressure-rated construction
- Quick-union rig-up connections
- Interchangeable stuffing box packing
- Corrosion-resistant coating
- Compatible with multiple line sizes
- Compact, portable skid design
- Prepped, primed and painted finish
- Minimum maintenance design

Options:

- Multiple pressure-rating classes
- Custom line-size configuration
- Manual or hydraulic grease injection
- Alternative end-connection profiles
- Custom paint / coating spec

Build Notes:

Dimensions, ratings and materials are configured per project. Contact us with your application details for a tailored specification sheet.

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F2.B
String Basket Tools

Description

Standard wireline toolstring accessories — including stems, roller stems, jars, knuckle joints and rope sockets — that make up the working "basket" of a slickline or braided-line string.

Machined from high-strength alloy steel to standard API thread and connection profiles for interchangeability across toolstrings.

Applications

- Slickline toolstring assembly
- Downhole jarring and weight control
- Well intervention and maintenance runs

Features:

- High-strength alloy steel construction
- Standard API connection profiles
- Precision-machined threads
- Corrosion-resistant coating
- Interchangeable modular components
- Static and dynamically balanced
- Minimum maintenance design

Options:

- Custom length and weight
- Alternative thread/connection profiles
- Custom bore and hub fitting
- Alternative materials on request

Build Notes:

Dimensions, ratings and materials are configured per project. Contact us with your application details for a tailored specification sheet.

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F2.C
Special Wireline Tools

Description

Purpose-built wireline tools engineered for non-standard or application-specific downhole tasks that fall outside routine toolstring components.

Custom-designed and machined to the well's specific bore, connection and operating conditions.

Applications

- Non-standard downhole interventions
- Custom well configurations
- Specialized diagnostic and service runs

Features:

- Application-specific custom design
- Precision-machined components
- High-strength alloy construction
- Corrosion-resistant coating
- Compatible with standard toolstrings
- Prepped, primed and painted finish

Options:

- Fully custom design on request
- Custom bore and connection profile
- Alternative materials on request
- Custom paint / coating spec

Build Notes:

Dimensions, ratings and materials are configured per project. Contact us with your application details for a tailored specification sheet.

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F2.D

Downhole Running & Pulling Tools

Description

Tools used to run and retrieve downhole completion components — such as locks, plugs, valves and chokes — via slickline or braided-line, providing a positive mechanical connection during installation and retrieval.

Engineered for reliable engagement and release under well pressure and temperature conditions.

Applications

- Running/pulling downhole locks and plugs
- Standing and check valve service
- Choke and regulator installation/retrieval

Features:

- Positive mechanical lock/release mechanism
- High-strength alloy construction
- Standard API connection profiles
- Corrosion-resistant coating
- Compatible with standard lock mandrels
- Minimum maintenance design

Options:

- Custom running/pulling profiles
- Manual or shear-release mechanism
- Alternative materials on request
- Custom paint / coating spec

Build Notes:

Dimensions, ratings and materials are configured per project. Contact us with your application details for a tailored specification sheet.

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F2.E
Well Completion Tools

Description

A broad range of tools supporting well completion operations, covering equipment used from perforation through to production start-up.

Built to standard oilfield specifications and configured to the well's completion design and operating envelope.

Applications

- Well completion operations
- Production start-up preparation
- Workover and re-completion service

Features:

- Application-specific design
- High-strength alloy construction
- Corrosion-resistant coating
- Standard API connection profiles
- Prepped, primed and painted finish
- Minimum maintenance design

Options:

- Custom configuration per completion design
- Alternative materials on request
- Custom paint / coating spec

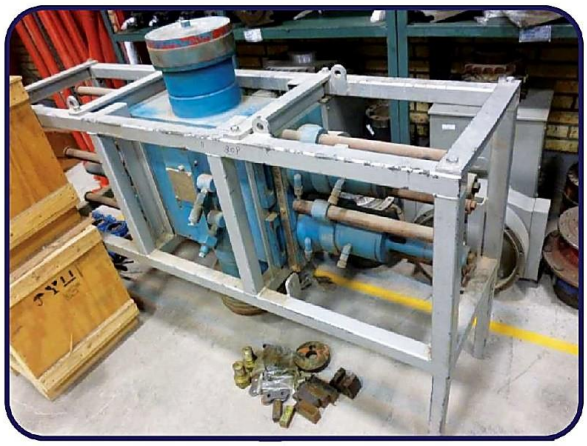
Build Notes:

Dimensions, ratings and materials are configured per project. Contact us with your application details for a tailored specification sheet.

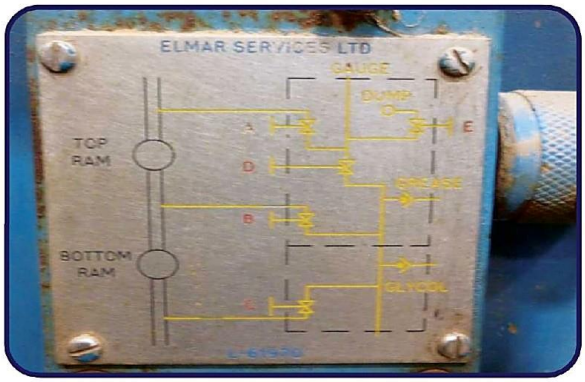
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F2.E1

ELMAR BOP

Model	*Description*
Manufacturer	ELMAR Services LTD
Structure	Standard transportation frame with adjustable legs (Fabricated by Schlumberger)
Working Pressure	10000 Psi
Test Pressure	15000 Psi
Color	Sky Blue
Thread Connection	9.156 – 4 ACME
BOP Weight	890 kg
Frame Weight	120 kg
Minimum Bore Diameter	5.5 ”

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F2.F

Well Completion String

Description

Downhole string components — including packers, mandrels, nipples and subs — that make up the permanent or retrievable completion string run in the wellbore.

Manufactured to standard oilfield connection and pressure specifications for reliable long-term downhole service.

Applications

- Permanent and retrievable completions
- Zonal isolation and production control
- Workover and re-completion projects

Features:

- High-strength alloy construction
- Standard API connection profiles
- Corrosion-resistant coating
- Precision-machined sealing surfaces
- Prepped, primed and painted finish
- Minimum maintenance design

Options:

- Custom string configuration
- Alternative materials on request
- Custom connection profile
- Custom paint / coating spec

Build Notes:

Dimensions, ratings and materials are configured per project. Contact us with your application details for a tailored specification sheet.

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F2.G

Well Head Plugs & Lubricators

Description

Wellhead plugs and lubricators used to maintain pressure control while running or retrieving tools through a live wellhead.

Sized to the wellhead's bore and pressure rating for secure, leak-tight sealing during rig-up and intervention work.

Applications

- Wellhead pressure isolation
- Tool rig-up under live well pressure
- Slickline and braided-line intervention

Features:

- Pressure-rated sealing design
- Corrosion-resistant coating
- Quick rig-up / rig-down connections
- High-strength alloy construction
- Compatible with standard wellhead profiles
- Minimum maintenance design

Options:

- Multiple pressure-rating classes
- Custom bore and connection size
- Alternative materials on request
- Custom paint / coating spec

Build Notes:

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F2.H
Fishing Equipment

Description

Retrieval tools designed to recover lost, stuck or parted equipment ("fish") from the wellbore, including overshots, spears, jars and grapples.

Configured to the fish's size, profile and downhole condition for reliable engagement and recovery.

Applications

- Recovery of stuck or parted toolstrings
- Retrieval of lost downhole equipment
- Well intervention and workover support

Features:

- High-strength alloy construction
- Standard API connection profiles
- Interchangeable engagement components
- Corrosion-resistant coating
- Prepped, primed and painted finish
- Minimum maintenance design

Options:

- Custom engagement profile
- Alternative materials on request
- Custom paint / coating spec

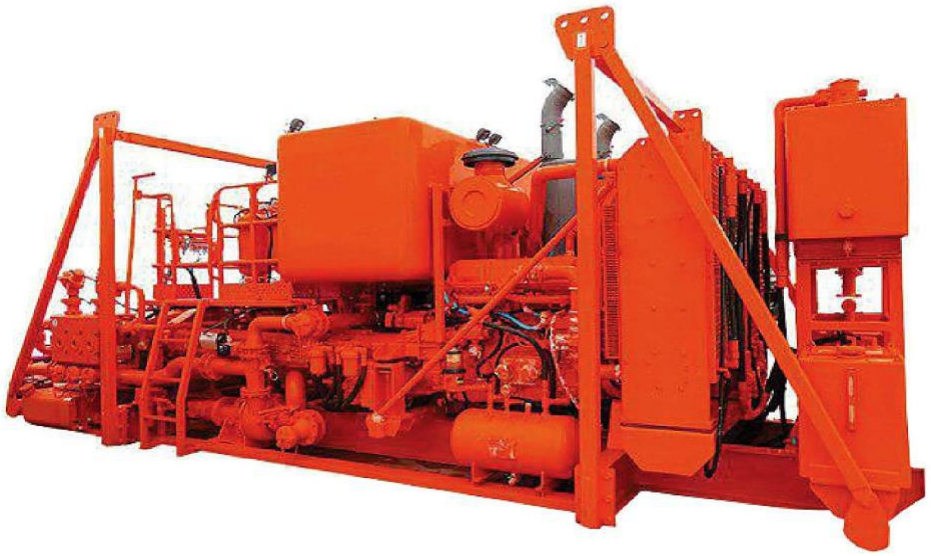
Build Notes:

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F3.A1

Skid Mounted Acidizing Unit

Technical Specification

Max Working Pressure: 10,000 PSI
Max Working Flow Rate (Double Pumping): 20 bbl/min
Displacement Tank Capacity: 20 bbl
Plunger Pumps: 2x Compact Designed Triplex Pump (3.5” & 4.5” Plunger Size)
Diesel Engines: 2x Heavy Duty Industrial Diesel Engine 600 BHP
Transmissions: 2x Allison 4700 OFS (Oilfield Series)
Hydraulic System: Closed Loop PTO Driven

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F3.A2

Skid Mounted Batch Mixing Unit

Batch and continuous mixing skid utilizes auto density control module which is the latest in mixing and density control technology. It can realize batch mixing and continuous supplying the slurry to a cementing pumper.

Working Process

1. Continuous mixing operation: deliver mixed slurry from mixing tank to triplex pump's suction directly via transfer pump of cementing equipment.
2. Batch mixing operation: deliver mixed slurry from mixing tank to the two batch mixing tanks alternately, to realize batch mixing and continuous supplying.
3. Special slurry mixing: for special formula slurry (such as high density slurry), it can use the regular density slurry as the basic fluid, add weight additive through hopper on the top of unit, and then recirculate it in unit via recirculating pump.

Dimensions & Weights

[L] 7.85 m [W] 2.5 m [H] 3.3 m [Weight] 12000 kg

Technical Specification

Mixing Capability: 0.3 ~ 2.3 m^3/min
Density range: 1.3 ~ 2.5 g/cm^3
Auto control precision: +/- 0.02 g/cm^3
Batch mixing tank volume: 2x 50 bbl
Mixing tank volume: 8 bbl
Working ambient temperature: -20°C ~ +55°C

Main Equipment

* Engine: caterpillar C7 300 HP@2200 RPM or equivalent
* Gear box: Funk 59000 series
* Hydraulic system: Eaton heavy close hydraulic system
* Slurry recirculating pump: Serva 6x5 or equivalent
* Booster/transfer pump: Serva 6x5 or equivalent
* Mixing water pump: Serva 4X3 or equivalent
* Mixing system: high energy mixing injector
* Control system: Auto density control system

Features

* Continuous / Batch mixing, manual / auto control
* Utilizes new high energy mixing technology. Slurry enters into batch mixing tank via high energy mixing system and then average to ensure the stable quality of slurry.
* Adopts the international popular configuration 2x50BBL, and install large power agitator in each tank.
* Equipped with anti-impact and lifting frame, for easy transporting and hoisting.

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F3.A3

Skid Mounted Cementing Unit

This is a double pump cementing skid equipped with plunger triplex pumps is new generation of cementing unit developed in recent years. The high energy mixing system and other hydraulic equipment is powered by the transmissions PTOs. The skid is very compact, so it is applicable for the areas with strict requirements for space, such as offshore drilling platform, etc. This unit is mainly utilized in cementing job, acidizing job, oil well pressure testing, and other fluid pumping job in offshore, on land or desert oilfield.

Dimensions & Weights

[L] 7.5 m [W] 2.5 m [H] 3.3 m [Weight] 22000 kg

Technical Specification

Max. working pressure: 14000 psi (with 4” fluid end of TPH400 pump)
Max. flow rate: 17.2 BPM (with 4.5”+4” fluid ends of TPH400 pump)
Density range: 1.3 ~ 2.5 g/cm³
Mixing capacity: 0.3 ~ 2.3 m³/min
Working ambient temperature: -20°C ~ +55°C
Displacement tank capacity: 20 bbl (2x10 bbl)
Mixing tank capacity: 8 bbl

Main Equipment

* Diesel engines: 2x Caterpillar C13 475 HP @ 2100 rpm; 2x Caterpillar C15 540 HP @ 2100 rpm (optional); 2x Detroit Diesel S60 600 HP @ 2100 rpm (optional); 2x OM502LA 600 HP @ 2100 rpm (optional)
* Transmission: 2x Allison 4700 OFS; 2x ZF TC Tronic (optional)
* Triplex Plunger pump: 2x Serva TPH400 [4” & 4.5” fluid end]; 2x Serva TPD600 [3.5” & 4.5” fluid end] (optional); 2x WET/TWS600 [3.5” & 4.5” fluid end] (optional)
* Centrifugal pumps: 2x Serva 6x5x11 (Recirculation & Boost pumps); 1x Serva 4x3x13 (Mix water pump); optional brands NOV Magnum Mission / Abran Sanat
* Densitometer: 1x Emerson Micromotion F300 (Non-radioactive)
* Mixer: 1x High energy mixing injector

Features

* High energy recirculation jet mixing system
* Off-center dry cement valve avoids bulk cement from chocking
* Emergency shutdown system of air inlet shut off
* Plunger pump over pressure mechanical protection system
* Plunger pump over pressure electronic protection system
* Simplify operation, adapts to working habits in oilfield
* PLC-based control system with 12” operation screen
* Level indicator & level transmitter for displacement / mixing tank
* Barrel counter for displacement tank
* Sight glass for fuel tank, hydraulic oil reservoir and lubrication tank
* Stainless steel control panel with engraved words in english
* Extra fuel tank (optional)
* PTO driven hydraulic system
* Air actuated butterfly valves
* High pressure manifold 15000 psi
* Turbine flowmeters for water & slurry
* 15000 psi Protector meters & 6” dial gauges for pressure indicating system
* Hydraulic oil cooler with electrical fan
* Pressure transmitters 15000 psi
* All of platforms and walkway have been covered with grating
* Four lifting point structure
* Pressure release line from high pressure manifold to displacement tank
* Guards for drive shafts & cardans

Note

Layout of equipment is variable according to type of selected plunger pumps.

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F3.B1

Trailer Mounted Batch Mixing Unit

This unit is designed for continuous and batch mixing of high quality slurry, according to actual operating condition in oil field, the trailer is equipped with two extra mechanic jack at the tail end which can meet the requirements of weight bearing during the mixing job. The deck engine supplies power to whole mixing equipment, through driving the hydraulic system to power the three centrifugal pumps and agitators. The unit is mainly used in cementing jobs with high demand of slurry density.

Dimensions & Weights

[L] 11.6 m [W] 2.6 m [H] 4.3 m [Weight] 22000 kg

Technical Specification

Mixing Capability: 0.3 ~ 2.3 m^3/min
Density range: 1.3 ~ 2.5 g/cm^3
Auto control precision: +/- 0.02 g/cm^3
Batch mixing tank volume: 2x 50 bbl
Mixing tank volume: 8 bbl
Working ambient temperature: -20°C ~ +55°C

Main Equipment

* Chassis type: Semi-trailer
* Diesel engine: caterpillar C7 300 HP@2200 RPM or equivalent
* Gear box: Funk 59000 series
* Hydraulic system: Eaton heavy close hydraulic system
* Slurry recirculating pump: Serva 6x5 or equivalent
* Booster/transfer pump: Serva 6x5 or equivalent
* Mixing water pump: Serva 4X3 or equivalent
* Mixing system: high energy mixing injector
* Control system: Auto density control system

Optional Design

Batch mixing unit with frame structure suitable for offshore & land cementing services.

Features

* Continuous / Batch mixing, manual / auto control
* Utilizes new high energy mixing technology. Slurry enters into batch mixing tank via high energy mixing system and then average to ensure the stable quality of slurry.
* Adopts the international popular configuration 2x50BBL, and install large power agitator in each tank.
* Auxiliary hydraulic jacks meets demand for weight bearing.

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F3.B2

Trailer Mounted Cementing Unit

This is a double pump cementing unit equipped with plunger triplex pumps that is mounted on a semi-trailer chassis. The high energy mixing system and other hydraulic equipment is powered by an auxiliary diesel engine that installed on the deck. This unit is mainly utilized for cementing, acidizing, pressure testing and other fluid pumping jobs.

Dimensions & Weights

(Trailer only) [L] 11.9 m [W] 2.6 m [H] 4.5 m [Weight] 28500 kg

Technical Specification

Max. working pressure: 14000 psi (with 4" fluid end of TPH400 pump)
Max. flow rate: 17.2 BPM (with 4.5"+4" fluid end of TPH400 pump)
Density range: 1.3 ~ 2.5 g/cm³
Mixing capacity: 0.3 ~ 2.3 m³/min
Working ambient temperature: -20°C ~ +55°C
Displacement tank capacity: 20 bbl (2x10 bbl)
Mixing tank capacity: 8 bbl

Main Equipment

* Main diesel engines: 2x Detroit Diesel S60 600 HP @ 2100 rpm; 2x Caterpillar C15 540 HP (optional); 2x Caterpillar C13 475 HP (optional); 2x OM502LA 600 HP @ 2100 rpm (optional)
* Transmission: 2x Allison 4700 OFS; 2x ZF TC Tronic (optional)
* Triplex Plunger pump: 2x Serva TPH400 [4" & 4.5" fluid end]; optional TPD600 / WET-TWS600
* Auxiliary diesel engine: 1x Caterpillar C7 300 HP or equivalent
* Centrifugal pumps: 2x Serva 6x5x11 (Recirculation & Boost); 1x Serva 4x3x13 (Mix water); optional NOV Magnum Mission / Abran Sanat
* Densitometer: 1x Emerson Micromotion F300 (Non-radioactive)
* Mixer: 1x High energy mixing injector

Features

* Control room with air conditioner (optional)
* High energy recirculation jet mixing system
* Off-center dry cement valve avoids bulk cement from chocking
* Emergency shutdown system of air inlet shut off
* Plunger pump over pressure mechanical protection system
* Plunger pump over pressure electronic protection system
* Simplify operation, adapts to working habits in oilfield
* PLC-based control system with 12" operation screen
* Level indicator & level transmitter for displacement / mixing tank
* Barrel counter for displacement tank
* Sight glass for fuel tank, hydraulic oil reservoir and lubrication tank
* Stainless steel control panel with engraved words in english
* Air actuated butterfly valves
* High pressure manifold 15000 psi
* Turbine flowmeters for water & slurry
* 15000 psi Protector meters & 6" dial gauges for pressure indicating system
* Hydraulic oil cooler with electrical fan

Note

Layout of equipment is variable according to type of selected plunger pumps.

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F3.B3

Trailer mounted cementing unit

This double pump trailer is built for pumping fluids. The pump unit is adaptable to permit various linear sizes to be fitted for high pressure / low rate or low pressure / high rate operation within the constraints of the available BHP. The tanks are installed in such a way that the operator can view the entire tank volume from the operator's platform.

Model	*Description*
Total Dimensions	11925 mm Length x 2600 mm Width x 4400 mm Height
Total Approximate Weight	Dry: 28 Tons
Chassis	30Tons Semi Trailer 2Axles, 11.9m x 2.6 m – Red Color – C/C of Axles: 1400mm 2” King Pin Size, Air Brake with ABS System
Engine	2x Caterpillar C15 Acert Diesel Engines, 6 Inline Cyl., Turbo Charged, Water Cooled, EQ. with Air Compressor [2x 540 hp]
Transmission	2x Allison Series 4700 OFS 6 Speed, 550 HP, With Electronic Control, Spicer 1810 Series Double-Pivoted Joint Cardans
High Pressure Pumps	2x Halliburton HT-400 (Max. Crankshaft speed is 244 rpm with CAT C15 Diesel Engines)
Fluid Ends	4.5” DIA. Triplex Plunger
Displacement Tank	20 bbl Consist of Two 10bbl
Mixing System	High Energy Cement Mixing (RCM) : 8bbl Tank, Bulk Cement Mixer, Centrifugal Pumps, Densitometer Sensor, Flow Meter & Hyd. Agitators
Slurry Recirculation/Boost	1x Serva 6x5x11 Centrifugal Pump
Mixing Water	1x Serva 4x3x13 Centrifugal Pump
Hydraulic System	PTO Driven Closed Loop with 240 Lit Hydraulic Oil Tank, Variable displacement hydraulic pumps and fixed displacement hydraulic motors, Gear pumps, etc
High Pressure Connections	2” Fig 1502, Max Pressure 15000 psi, Wing Threads
Operator Control Panel	Stainless Steel, PLC Controlled, English Text Engraved, Protective Cover Door
Operation Technical Info.	Maximum Mixing Rate: 10 bbl/min, Maximum Flow Rate: 8 bbl/min from each pump (Each slurry Batch is 8 Barrel for slurry pumping), Maximum Working Pressure: 9500 PSI, Working Temp. -25° ~ +55° C, Slurry Density Range: 8.33 ~ 22 lb/gal Relief Valve Set Point Calibrated Pressure : 8500 PSI

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F3.B4

Trailer Mounted Fracturing Unit

Fracturing pumping units are suitable for all kinds of fracturing operations in deep, medium and shallow oil and gas wells. They can be used for hydraulic fracturing, acid fracturing, high pressure fluid pumping, pressure testing, etc. Units have been installed on a heavy duty semi-trailer chassis.

Type 1 – Dimensions & Weights

[L] 11.9 m [W] 2.6 m [H] 4.1 m [Weight] 36000 kg

General Specification (Type 1)

Max. pressure/flow (4” fluid end): 17970 psi / 9.3 bpm
Max. pressure/flow (4.5” fluid end): 14170 psi / 11.7 bpm
Max. pressure/flow (5” fluid end): 11472 psi / 14.5 bpm
Max. pressure/flow (5.5” fluid end): 9485 psi / 17.5 bpm
Working ambient temperature: -20°C ~ +55°C

Type 1 – Main Equipment

* Main diesel engine: Caterpillar 3512B 2250 HP @ 2100 rpm; MTU 12V4000 2500HP @ 2100 rpm (optional)
* Transmission: Allison 9823 OFS
* Triplex Plunger pump: Serva TPA 2250

Type 2 – Dimensions & Weights

[L] 11.9 m [W] 2.6 m [H] 4.1 m [Weight] 38000 kg

General Specification (Type 2)

Max. pressure/flow (4” fluid end): 15330 psi / 15.5 bpm
Max. pressure/flow (4.5” fluid end): 12140 psi / 19.6 bpm
Max. pressure/flow (5” fluid end): 9819 psi / 24.2 bpm
Max. pressure/flow (5.5” fluid end): 8108 psi / 29.3 bpm
Working ambient temperature: -20°C ~ +55°C

Type 2 – Main Equipment

* Main diesel engine: Caterpillar 3512C 2500 HP @ 2100 rpm; MTU 12V4000 2500HP @ 2100 rpm (optional)
* Transmission: Allison 9823 OFS
* Quintuplex Plunger pump: Serva QPA 2500

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F3.B5

Trailer mounted twin pump cementing unit

The greatest benefit of Faliz Factory Twin Cementing Unit Trailer is its reliability.

With fully redundant equipment, the Twin Trailer virtually eliminates the threat of down time due to mechanical failure. The Twin Trailer is field-designed and fabricated to Tropical weather conditions, yet is simple to operate and easy to maintain. With remarkable versatility, the Trailer Twin is capable of performing multiple functions and can simultaneously take on fluid, mix slurry and pump downhole.

Model	*Description*
Total Dimensions	12000 mm Length x 2600 mm Width x 4500 mm Height
Total Approximate Weight	Wet : 30 Tons, Dry: 26 Tons
Chassis	30Tons Semi Trailer 2Axles, 12m x 2.6 m – Red Color – C/C of Axles: 1400mm 2” King Pin Size, Brackets, Air Brake with ABS System
Engine	2x Detroit S60 Series Diesel Engines, 6 Inline Cyl., Turbo Charged, Water Cooled, EQ. with Bendix Air Compressor
Transmission	2x Allison Series 4700 OFS 6 Speed, 550 HP, With Electronic Control, Spicer 1800 Series Double-Pivoted Joint Cardans
High Pressure Pumps	2x Gardner Denver GD 600 / GD Compact
Fluid Ends	3.5” DIA. Triplex Plunger & 4.5” DIA Triplex Plunger
Displacement	20 bbl Consist of Two 10bbl
Mixing System	High Energy Cement Mixing (RCM) : 8bbl Tank Consist of Two Compartments, Bulk Cement Mixer, Centrifugal Pumps, Micromotion Sensor, Flow Meter & Hyd. Agitators
Slurry Recirculation	2x Mission 6x5x11 Centrifugal Pump
Mixing Water	1x Mission 4x3x13 Centrifugal Pump
Hydraulic System	Close Loop with 200 Lit Oil Tank, Boost Pumps, Slurry Metering Valve Actuators, Eaton HydroPumps And HydroMotors
High Pressure Connections	SPM 2” Fig 1502, Max Pressure 15000 psi, Wing Threads
Operator Control Cabin	Noiseless, White Color, Air Conditioner, Control Panel, Air Horn, Door Interlock & etc.
Operation Technical Info.	Maximum Mixing Rate: 12 bbl/min, Maximum Flow: 20 bbl/min on 4.5” Fluid End, Maximum Pressure: 65 MPa on 3.5” Fluid End, Working Temp. 25°-55° C, Cement Slurry Density Range: 1 - 2.5 g/cm³ (8.4 lb/gal – 20.8 lb/gal)

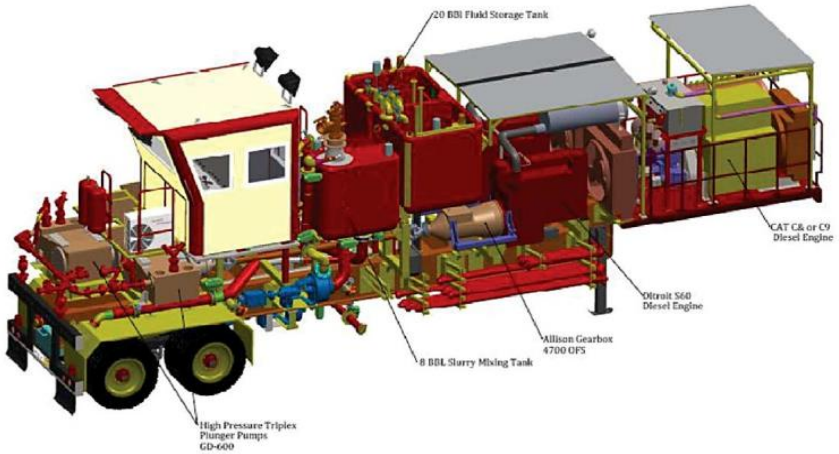
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F3.B6

Twin Pump Cementing Unit Trailer

The greatest benefit of Faliz Factory Twin Cementing Unit Trailer is its reliability.

With fully redundant equipment, the Twin Trailer virtually eliminates the threat of down time due to mechanical failure. The Twin Trailer is field-designed and fabricated to Tropical weather conditions, yet is simple to operate and easy to maintain. With remarkable versatility, the Trailer Twin is capable of performing multiple functions and can simultaneously take on fluid, mix slurry and pump downhole.

Model	*Description*
Total Dimensions	12000 mm Length x 2500 mm Width x 4500 mm Height
Total Approximate Weight	Wet : 30 Tons, Dry: 26 Tons
Chassis	30Tons Semi Trailer 2Axles, 12m x 2.5 m – Red Color – C/C of Axles: 1400mm 2” King Pin Size, Brackets, Air Brake with ABS System
Engine	2x Detroit S60 Series Diesel Engines, 6 Inline Cyl., Turbo Charged, Water Cooled, EQ. with Bendix Air Compressor
Transmission	2x Allison Series 4700 OFS 6 Speed, 550 HP, With Electronic Control, Spicer 1800 Series Double-Pivoted Joint Cardans
High Pressure Pumps	2x Gardner Denver DDC / GD 600 ZONE II
Fluid Ends	3.5” DIA. Triplex Plunger & 4.5” DIA Triplex Plunger
Displacement	10 bbl. Consist of Two 5bbl
Mixing System	High Energy Cement Mixing (RCM) : 8bbl Tank Consist of Two Compartments, Bulk Cement Mixer, Centrifugal Pumps, Micro motion Sensor, Flow Meter & Hyd. Agitators
Slurry Recirculation	2x Mission 6x5x11 Centrifugal Pump
Mixing Water	1x Mission 4x3x13 Centrifugal Pump
Hydraulic System	Close Loop with 200 Lit Oil Tank, Boost Pumps, Slurry Metering Valve Actuators, Eaton Hydro Pumps And Hydro Motors
High Pressure Connections	SPM 2” Fig 1502, Max Pressure 15000 psi, Wing Threads
Operator Control Cabin	Noiseless, White Color, Air Conditioner, Control Panel, Air Horn, Door Interlock & etc.
Operation Technical Info.	Maximum Mixing Rate: 12 bbl/min, Maximum Flow: 20 bbl/min on 4.5” Fluid End, Maximum Pressure: 65 MPa on 3.5” Fluid End, Working Temp. 25°-55° C, Cement Slurry Density Range: 1 - 2.5 g/cm³ (8.4 lb/gal – 20.8 lb/gal)

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F3.C1

Truck mounted Batch Mixer unit

This truck mounted unit is designed for continuous and batch mixing of high quality slurry, according to actual operating condition in oilfield. This unit utilizes the auto density system which is the latest in mixing and density control technology. It can realize batch mixing and continuous supplying the slurry to a cementing pumper. The unit adopt with heavy duty 6x4 or 6x6 truck chassis equipped with outriggers which can meet the requirements of mobility and weight bearing for a batch mixing job. The deck engine supplies power to whole mixing equipment, through driving the hydraulic system to power three centrifugal pumps and agitators.

Technical Specification

Overall Dimensions	10250 (L) x 2500 (W) x 4150 (H) mm
Net Weight	22000 kg
Working ambient temperature	-15°C ~ +55°C
Mixing Capability	0.3 ~ 2.3 m^3/min
Density range	1.3 ~ 2.5 g/cm^3
Auto Control Precision	± 0.02 g/cm^3
Batch mixing tank volume	2x 50 BBL
Mixing tank volume	8 BBL
Engine	Caterpillar C7 / 300 hp @ 2200 rpm
Pump drive	Funk 59000 series
Hydraulic system	Closed loop with heavy duty pumps & motors (Eaton/Parker/Metaris/Roquet)
Slurry recirculation pump	Serva 6x5x11
Booster / Transfer pump	Serva 6x5x11
Mixing water pump	Serva 4x3x13
Mixing System	High energy mixing injector
Control System	Auto density control system (it can be change to manual by operator)
Option	50BBL tanks can be designed in rounded or rectangular type

Operation #1 [Continuous mixing]: deliver mixed slurry from mixing tank to triplex pump's suction directly via transfer pump of cementing equipment.

Operation #2 [Batch mixing]: deliver mixed slurry from mixing tank to the two batch mixing tanks alternately, to realize batch mixing and continuous supplying.

Operation #3 [Special slurry mixing]: Special slurry mixing: for special formula slurry (such as high density slurry), it can use the regular density slurry as the basic fluid, add weight additive through hopper on the top of unit, and then recirculate it in unit via recirculating pump.

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F3.C3

Truck Mounted Cementing Unit

This is a double pump cementing unit equipped with plunger triplex pumps that is new generation of truck mounted cementing unit. The high energy mixing system and other hydraulic equipment is powered by the transmissions PTOs. This unit is mainly utilized for cementing, acidizing, pressure testing and other fluid pumping jobs, with configuration of 6x4 or 6X6 chassis.

Dimensions & Weights

[L] 11.3 m [W] 2.6 m [H] 4.2 m [Weight] 30000 kg

Technical Specification

Max. working pressure: 14000 psi (with 4” fluid end of TPH400 pump)
Max. flow rate: 17.2 BPM (with 4.5”+4” fluid end TPH400 pump)
Density range: 1.3 ~ 2.5 g/cm³
Mixing capacity: 0.3 ~ 2.3 m³/min
Working ambient temperature: -20°C ~ +55°C
Displacement tank capacity: 20 bbl (2x10 bbl)
Mixing tank capacity: 8 bbl

Main Equipment

* Diesel engines: 2x Caterpillar C13 475 HP @ 2100 rpm; 2x Caterpillar C15 540 HP (optional); 2x Detroit Diesel S60 600 HP (optional); 2x OM502LA 600 HP (optional)
* Transmission: 2x Allison 4700 OFS; 2x ZF TC Tronic (optional)
* Triplex Plunger pump: 2x Serva TPH400 [4” & 4.5” fluid end]; optional TPD600 / WET-TWS600
* Centrifugal pumps: 2x Serva 6x5x11 (Recirculation & Boost); 1x Serva 4x3x13 (Mix water); optional NOV Magnum Mission / Abran Sanat
* Densitometer: 1x Emerson Micromotion F300 (Non-radioactive)
* Mixer: 1x High energy mixing injector

Features

* High energy recirculation jet mixing system
* Off-center dry cement valve avoids bulk cement from chocking
* Emergency shutdown system of air inlet shut off
* Plunger pump over pressure mechanical protection system
* Plunger pump over pressure electronic protection system
* Simplify operation, adapts to working habits in oilfield
* PLC-based control system with 12” operation screen
* Level indicator & level transmitter for displacement / mixing tank
* Barrel counter for displacement tank
* Sight glass for fuel tank, hydraulic oil reservoir and lubrication tank
* Stainless steel control panel with engraved words in english
* PTO driven hydraulic system (PTO of transmissions)
* Air actuated butterfly valves
* High pressure manifold 15000 psi
* Turbine flowmeters for water & slurry
* 15000 psi Protector meters & 6” dial gauges for pressure indicating system
* Hydraulic oil cooler with electrical fan

Note

Layout of equipment is variable according to type of selected plunger pumps.

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F4.A

SKID MOUNTED COILED TUBING UNIT

The Coiled Tubing Unit (CTU) is a self-contained, skid-mounted system for live-well intervention, integrating an injector head, tubing reel, pressure-control stack and control cabin to safely run and retrieve coiled tubing under wellbore pressure.

Rated for high-pressure well control, the unit is configured for a range of coiled tubing sizes and intervention duties, from land rigs to offshore platforms.

80K Injector Head

* 80,000 lb continuous pull
* 100,000 lb intermittent pull force
* At 40,000 lb continuous pull, capable of 200’ per minute
* Capable of 40,000 lb of snub force
* Runs pipe sizes from 1-1/4" up to 2-3/8" OD coiled tubing

Reel Capacity and Specs

* 15,000 working PSI rotating joint
* 48,000 ft of 1-1/4"
* 24,000 ft of 1-3/4"
* 18,000 ft of 2"

Stripper Assembly

* Dual pack off
* 15,000 lb working PSI
* 4-1/16", 15K flange
* Side door for easy access with tubing deployed

4-1/16" Quad B.O.P.

* 15,000 lb working PSI
* Runs 1-1/4" to 2" tubing

Flow Cross

* 15,000 lb working pressure

Single BOP

* 1-1/4" to 2" coiled tubing
* 15,000 lb working pressure

Control Cabin

* Data acquisition system
* Continuous monitoring of job parameters
* Real-time modeling and fatigue software

Wet Kit

* 5,000 PSI wet kit

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F4.B

TRAILER MOUNTED COILED TUBING UNIT

The Coiled Tubing Unit (CTU) is a self-contained, trailer-mounted system for live-well intervention, integrating an injector head, tubing reel, pressure-control stack and control cabin to safely run and retrieve coiled tubing under wellbore pressure.

Rated for high-pressure well control, the unit is configured for a range of coiled tubing sizes and intervention duties, from land rigs to offshore platforms.

80K Injector Head

* 80,000 lb continuous pull
* 100,000 lb intermittent pull force
* At 40,000 lb continuous pull, capable of 200’ per minute
* Capable of 40,000 lb of snub force
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* Side door for easy access with tubing deployed

4-1/16" Quad B.O.P.

* 15,000 lb working PSI
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Flow Cross

* 15,000 lb working pressure

Single BOP

* 1-1/4" to 2" coiled tubing
* 15,000 lb working pressure

Control Cabin

* Data acquisition system
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Wet Kit

* 5,000 PSI wet kit

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F7.A1

Drawworks National 1320 UE

Chain driven Drawworks are proven, reliable machines that have set many standards in the drilling industry. The robust design and simplicity of these Drawworks allow for easy operation and maintenance. The Drawworks are designed to provide maximum power in minimum space and feature DC electric motor drives.

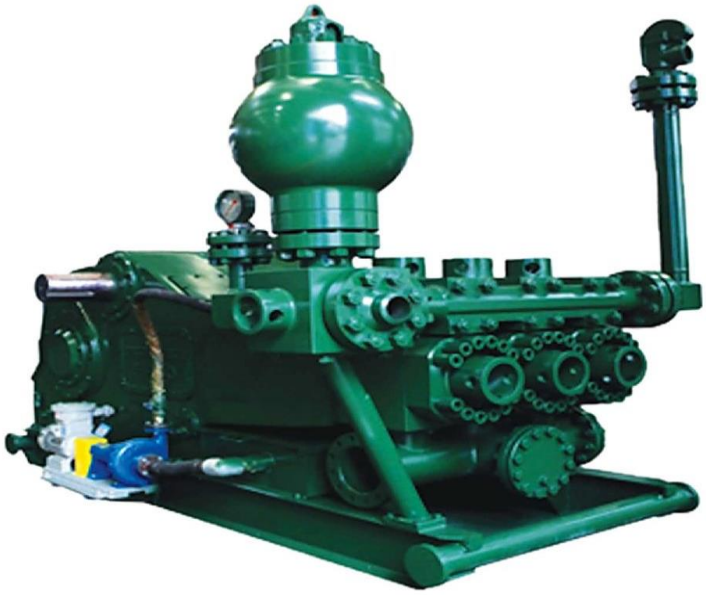
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F7.B1

F1600 Triplex Mud Pump

The F1600 triplex has a maximum working pressure of 5000 PSI with 5” liner size and a displacement of 46.5 L/S with 7” liner size with 120 Stroke/min. The F-series mud pumps are rated at longer stroke (12”) and relatively low stroke per minute. Thus they can increase the service life of parts of fluid end assembly.

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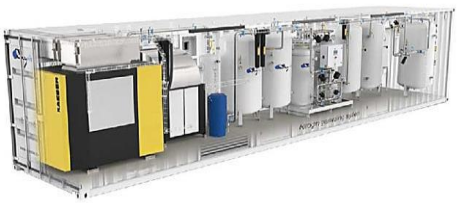
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F9.A1

Molsieve Nitrogen Plant MS 500

The MS 500 PSA Nitrogen Plant is a sequence programmer based, gas generator that produces pure nitrogen at a rate of 500 NM3/HR with oxygen impurity limited to 5% max.

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F10.A1

Septic Trailer

A Vacuum Tank Trailer for Sludge & Slurry

Specifications

Dimensions: L x W x H : 11 x 2.5 m x 3.15m
volume : 11500 L
Discharge Pressure: 2 bar
Vacuum Pressure: 0.8 bar
Flow Rate: 450 m^3/h
Speed: 1450 rpm
Suction Depth: up to 30 m

Tools

* 4 Way Valve
* Shutoff Valve
* Cyclone Separator
* Power pack

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F11.A

HEAVY VEHICLES FIRE TRUCK

Heavy firefighting vehicles (over 16 t) are intended for firefighting and rescue interventions in all conditions. There are different versions of this vehicle: on-road vehicles (intended for driving on hardened surfaces) and off-road (intended for interventions in areas with difficult access). The high reliability of our vehicles is guaranteed by top quality equipment from national and foreign brands, and cooperation with leading truck manufacturers.

Manufactured based on the NFPA standard for all tanks.

Its stainless-steel tank construction and heavy-duty chassis are built for long service life under demanding fire-suppression duty in both urban and industrial settings.

Water Tank

* Capacity: 8000 liters (auxiliary capacity 2000 liters)
* Material: stainless steel 316, thickness 4 mm

Water Pump

* Flow rate: 6500 lit/min
* Pressure: 25 bar

Foam Tank

* Material: stainless steel 316
* Capacity: 4500 lit

Foam Mixing System

* Capacity: 160 to 800 lit/min
* Electronic control
* Gear pump, material: stainless steel, 2 mm

Monitor

* Material: stainless steel, 2 mm
* Rotation: 360°

Spray Powder System

* Electronic installation and control

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F11.B

FOMATIC SEMI-HEAVY FIREFIGHTING VEHICLE - WATER, FOAM & DRY POWDER

Semi-heavy firefighting car, featuring tanks for water, foam and powder. Its low weight and speed make it suitable as a quick-reaction vehicle in fire-extinguishing operations, for use in city and road operations and in various industries.

Designed and manufactured based on classic capacity, the NFPA standard, the IPS standard, and according to users' requirements for different applications.

Its compact footprint and fast response time make it a practical first-response option for municipalities, industrial sites and facilities with limited garage space.

Chassis

* Configuration: 4×2
* Chassis capacity: 18 ton

Tank Capacities

* Water tank: 6000–7000 lit
* Foam tank: 1500–2000 lit
* Powder tank: 150–250 kg
* Tank material: stainless steel

Water Pump

* Flow rate: 2000–6500 lit/min
* Pressure: 10 bar
* High pressure: 25 lit/min at 40 bar
* Pump material: aluminum or bronze

Monitor

* Flow rate: 4500 lit/min

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F11.C

TURNTABLE LADDER M68L

The FALIZ Group Turntable Ladder “M68L” is a self-propelled hydraulic ladder designed for effective rescue and firefighting operations from high-rise buildings, giving access to high-rise locations.

When fully extended, the ladder reaches a maximum working height of 68 m from ground level, and is suitable for any intermediate height with the possibility of vertical and horizontal simultaneous movement without mutual interference.

The platform combines a stable hydraulic drive with precise, responsive ladder control, supporting demanding rescue and firefighting tasks at height on both single-cab and double-cab chassis.

Dimensions

* Valid for both Single Cab & Double Cab types
* Overall length: 13 m
* Overall width: 2.50 m
* Overall height: 4.10 m

Weights (approx.)

* G.V.W: 40,000 kg
* Operational weight: 32,500 kg

Performance (approx.)

* Maximum speed: 100 km/h

Turntable Ladder

* Working height: 68m from ground level
* Rotation: 360°
* Elevation: -10° up to +75°
* Ladder sections: 7 telescopic sections

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F11.D

FIRST INTERVENTION TRUCK

The First Intervention vehicle is easy to drive and equipped according to need for emergency firefighting and/or rescue operations.

Its light weight and simple controls make it well suited for quick-response teams and smaller stations, allowing rapid deployment as soon as a call comes in.

Dimensions (optional)

* Length: 5000 mm
* Width: 1800 mm
* Height without monitor: 2100 mm
* Height with monitor: 2550 mm

Body

* Pump chamber with three roller shutter doors
* Equipment chamber with two roller shutter doors
* Body frame: stainless steel or special aluminum; aluminum panels for high humidity areas, carbon steel for dry areas

Tanks & Pump

* Water tank capacity: 700–1500 liter
* Foam tank capacity: 100–150 liter
* Pump capacity: 1500 l/min
* Pump material: alloy aluminum
* Monitor: 1500 lit/min
* Hose reel: 20 m, with special nozzle

Accessories

* Multi-stage siren and microphone
* Two-piece aluminum ladder
* Powder and CO2 fire extinguishers
* Roof spotlight
* Mobile spotlight
* Fire axes
* Tools box on request

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F11.E

RESCUE FIRE TRUCK

This kind of vehicle is used specially for any type of rescue operation: floods, earthquakes, collapses, accidents, chemical incidents, roads, industrial accidents, and marine and height rescues.

Its modular equipment bays keep specialized rescue tools organized and readily accessible on scene, supporting fast, coordinated response by the crew.

Dimensions

* Length: 8730 mm
* Width: 2500 mm
* Height: 3360 mm

Body

* 8 aluminum roller shutter doors
* Boxes and cabin mounted on each side and behind the vehicle for carrying heavy and bulky equipment

Accessories

* 3-phase electric power generator
* Mast lighting with 4 anti-smoke projectors
* Manual and hydraulic welding and electric cutting tools
* Medical tools, height-rescue equipment and jumping cushions
* Multi-stage siren and microphone
* 5-ton crane
* Eight-meter aluminum ladder (two-piece)
* Permanent battery charging system: 220 V AC input, 24 V / 12 A DC output
* Portable rescue equipment on request

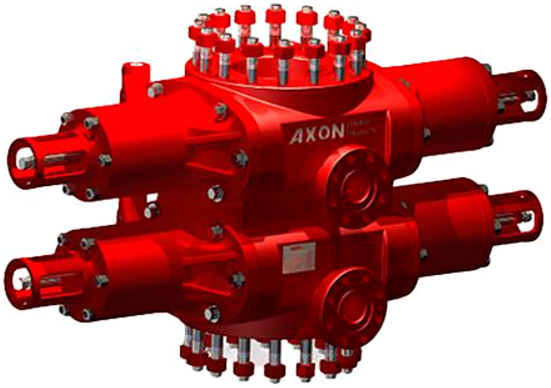
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F12.A

BLOWOUT PREVENTER

B.O.P is a specialized valve or similar mechanical device, used to seal, control and monitor oil and gas wells to prevent blowouts, the uncontrolled release of crude oil or natural gas from a well. They are usually installed in stacks of other valves.

Type:

1. Annular BOP: it is a large circular valve that can control the wellbore fluid. It consists of a rounded elastomer with reinforced steel segments. The rubber will deform radially inwards and seals. It can close around different shapes such as square, hexagonal, etc. The major part of the annular BOP is the sealing element. So if the fluid pressure changes the closing mechanism would be actuated, the piston will receive the hydraulic pressure which would cause it to move upwards and thus forcing the sealing element and it will be extended to the wellbore around the drill string. The steel segment will close over the rubber so that it can prevent the excessive partial close over the rubber in order to prevent the excessive extrusion when sealing under high pressure.

2. Ram BOP: it is a valve that uses a pair of opposing pistons and a steel RAM block. The RAM blocks extend through a guide chamber of the BOP housing and it will extend towards the center of the BOP wellbore to halt the returning flow, it will open to permit the flow. So in the case if there is any change in the fluid pressure the steel rams would shut with the help of hydraulic pressure with great force. Single RAM; Double RAM.

Size:

1"	1.250" (1 1/4)	1.500" (1 1/2)	1.750" (1 3/4)	1.870" (1 7/8)	2.120"	2.750"

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F12.B1

BAILER

It is a service tool with fine threads that can be ran into a wellbore to collect debris and sand. The fine threads, removable valve, and up stroke pump design make it a valuable tool to carry material from the wellbore up to the surface.

Type:

1. Dump Bailer: It is used to deposit acid into the wellbore. It can also be used to spot cement on or into downhole equipment. It is designed to allow acid, mercury, ceraflow or other fluids to be dumped within the wellbore on top of any subsurface device. It is operated by jarring down to first shear a pin after which a plunger ruptures a disc thereby allowing the fluids to escape.

2. Hydrostatic Bailer: It is a service tool used at the time when the substance which is to be bailed cannot be removed using a pump bailer. This often takes place when metallic particles and other debris become lodged on the top of the dogs of the lock mandrel.

3. Drive Down Bailer: it is a wireline service tool used to take debris from the site of obstruction in the tubing casing. It consists of a top sub, bailer tube and a ball or flapper mule shoe. The ball or flapper opens when the bailer assembly is jarred into the debris and closes when the bailer is jarred out of the debris. It is designed to take debris samples from the site of obstruction in the tubing.

4. Sand Bailer: it is a pump action type bailer designed to remove sand and small debris in the tubing string, through the upward stroking motion of the pump section. Sand and debris are held in the load barrel through the use of different style check bottoms.

Size:

1.25" | 1.50" | 1.75" | 2.00" | 2.50" | 3.00" | 4.00"

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F12.B2

IMPRESSION BLOCK

The impression block provides a means of taking impressions of downhole blockages, obstructions, and tubular damage.

* The soft bottom of the block will be able to take a sample of the unknown object so that the operator is able to accurately select the next fishing equipment which increases efficiency and safety.
* It is a steel housing with a lead core; it is used to make an impression of the size, shape, and position of an object to be fished.

Size:

0.75" 1.00" 1.25" 1.50" 1.75" 2.125" 2.24" 2.50" 2.74" 3.125" 3.50"
4.00" 4.75" 5.25" 5.5" 6.00"

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F12.B3

JAR

It is used as part of a wireline tool string when upward impact is required.

Type:

1. Mechanical Wireline Jar: It is used to provide the ability to exert increased impact on subsurface tools by either jarring up or down. It is typically used in conjunction with hydraulic jars where the desire or need to jar may be necessary. It is often called SPANG JAR. They are composed of two interlocking links which slide very much in the same way as a slide hammer.

2. Hydraulic Wireline Jar: It is designed to give the wireline operator control over jarring intensity during wireline operations. This is accomplished through its unique body design and integral inner mandrel that allows the jar to be reset easily following each jarring cycle.

3. Knuckle Jar 4. Link Jar 5. Tubular Jar

Size:

1.25" | 1.50" | 1.75" | 1.87" | 2.125" | 2.50"

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F12.B4

PULLING TOOL

It is a wireline service tool used for retrieving subsurface devices with external fishnecks. These tools can be jar down or jar up to shear which can be altered back and forth based on how these are assembled.

Type:

1. B (BB & BE Pulling Tool)
2. G (GS & GR Pulling Tool)
3. J (JD & JU Pulling Tool)
4. R (RB & RJ & RS Pulling Tool)
5. S (SB & SM & SS Pulling Tool)
6. PRS

Size:

1–2" | 2–3" | 3–4" | 4–5" | 5–6" | 6–7"

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F12.B5

RUNNING TOOL

It is a special tool which helps in taking the downhole tools down the wellbore for well inspection, workover and intervention purposes. It is installed inside the wellbore to retrieve the gas lift valves. It also helps in placing the plugs and packers at their correct locations inside the wellbore.

Type:

1. A Running Tool
2. C-1 Running Tool
3. D Running Tool
4. E Running Tool
5. JC Running Tool
6. JK Running Tool
7. R Running Tool
8. RX Running Tool
9. W Running Tool
10. X Running Tool

Size:

1–2" 2–3" 3–4"

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F12.B6

STEM

Stem / Sinker Bar is used with wireline tools to provide additional weight to a wireline tool string. They are especially useful when used in conjunction with wireline hydraulic jars. By adding weight to the string, the speed of the closing operation is increased, and the jarring blow is intensified.

Type:

1. Lead Filled Stem: it is sometimes called sinker bar. It provides the mass required in wireline operations although they should not be used in operations where heavy jarring is anticipated. It is used instead of conventional stems when additional weight per foot for a given diameter is required.

2. Tungsten Filled Stem: it is sometimes called sinker bar. It provides the mass required in wireline operations although they should not be used in operations where heavy jarring is anticipated. It consists of a top sub with fishing neck and pin connection, a tube which carries the tungsten inserts and a bottom sub with box connection. It is used instead of conventional stems when additional weight per foot for a given diameter is required.

3. Roller Stem: it is a tool used in the wireline work string to minimize the effect of friction caused by the tool string sliding on the tubing wall during wireline work in deviated wellbores. It consists of a standard sinker bar with slots to accommodate simple rollers held in position with captive dowel pins.

Size:

1.250" | 1.500" | 1.875" | 2.125" | 2.500"

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F12.B7

TUBING GAUGE CUTTER

It is designed to gauge and scrape clean the I.D. of the tubing. The cutter O.D. should be selected very close to the I.D. of the tubing in which it is run. It should be used prior to running or pulling a subsurface control.

Type:

1. Tubing Gauge Cutter / Sample Collector: It is a wireline service tool that allows the operator to collect and retain samples of scale or wax attached to the tubing wall. A downward movement of the assembly will lift the gauge cutter ring and any debris will fall into the collection chamber below. When the gauge cutter / sample collector is picked up, the gauge cutter ring will close and cover the chamber, retaining the samples for analysis on surface.

2. Tubing Gauge Cutter Ring Mandrel: It is a wireline service tool designed to operate as a standard gauge cutter, but with the added facility of being able to interchange different size gauge cutters on a standard carrier.

Size:

1.25"-1.50"	1.50"-2.00"	2.00"-2.50"	2.50"-3.00"	3.00"-4.00"	4.00"-5.00"	5.00"-6.00"

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F12.B8

WIRELINE GRAB

It is a wireline service tool normally used to retrieve wire that has broken in the tubing.

* When a line breaks below the stuffing box, a full gauge tool such as a slotted skirt wirefinder is normally used to both locate and ball up the broken end of the line before running the wireline grab. The number of prongs will vary with the size of the tubing to maintain the strength of the grab. Smaller sizes of grabs will have only two prongs, while larger sizes may have three or more.
* It consists of a pin connection up and a housing with either two or three flexible prongs extending downwards. Pointed barbs are welded on the inside of the prongs so as to form hooks that will catch the looped end of the broken line.

Size:

1.50"	1.75"	2.25"	2.50"	3.00"	3.50"	4.00"	4.50"	5.00"	5.50"	6.00"

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KNUCKLE JOINT

The Knuckle Joint is designed for applications where tool string rotation or deflection is required.

* It is most useful in fishing applications to properly locate the fishneck. It provides a range of motion that helps to make the connections between the tool string and the running or pulling tools significantly more flexible.
* If one or more Knuckle Joints are utilized it will allow for Kickover Tools to explore side pocket areas. Constructed with a ball and socket the knuckle joint is recommended for use within the makeup of the tool string.
* Allows a full 360° rotation of the tool string together with up to 15° of angular deflection, while maintaining internal pressure sealing throughout the rotation.
* Normally made up immediately below the Mechanical Jar; a second Knuckle Joint can be added between the Stem and the Jar for extra flexibility in deviated wells.
* A Torque-Thru version is also available for strings where rotation of the tool string is not required.

Size:

1.250" (1 1/4) | 1.500" (1 1/2) | 1.750" (1 3/4) | 1.870" (1 7/8) | 2.120"

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F12.B10

BLIND BOX

The blind box is a single-piece tool designed to deliver "blows" much like a hammer, to downhole debris.

* It is used to beat down an obstruction encountered in the tubing string.
* It is also used to cut wireline on a rope socket during fishing operations.
* The bottom face is flat and hardened to reduce wear and damage under repeated jarring.
* Its solid, full-bore body also allows the tool to be used to help locate the fluid level inside a wellbore.
* Sizes are generally ordered in millimeter O.D. increments within the ranges shown.

Size:

0.75"	1.00"	1.25"	1.375"	1.50"	1.625"	1.75"	2.00"	2.347"	2.50"
3.00"	3.50"	4.00"	5.00"	6.00"					

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F12.B11

LUBRICATOR

It is used to accommodate the downhole wireline tool strings while rigging up when entering the wellbore, and returning to the surface.

* It is made up of sections of tubing material threaded on both ends to accept hand unions. Once made up with hand unions, lubricator joints are machined from sour service stock material.
* The upper and lower hand unions are machined as part of the lubricator joint or may be made with sealed premium thread connections.
* A complete lubricator assembly typically consists of a union collar, a male union, the lubricator tube, and a female union.
* On slickline jobs, several lubricator sections of different internal diameter are usually run together, opening from a narrower ID at the top to a larger ID at the bottom; wireline jobs normally keep the same ID throughout.
* Overall lubricator length should be at least 1,000 mm (about 3 ft) longer than the downhole tool string it will house.
* An optional bleed-off port, typically a 1/2" NPT ported sub, can be built into the assembly between the tube and the lower union.

Size:

2.5" – 3" | 3" – 4" | 4" – 5" | 5" – 6" | 6" – 7"

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F12.B12

CROSS OVER

The wireline cross over is a wireline tool string adapter designed to connect two tool string items with incompatible threads.

* Cross Overs are also available with quick-lock connections for faster rig-up and break-out.
* A related product, the Union Cross Over Adapter, performs the same transition function at the lubricator and surface-equipment level, connecting unions of different types (for example Bowen and Otis style) with a union box on one end and a union pin-and-collar on the other.
* Machined from high-strength alloy steel and pressure-tested to the same rating as the rest of the tool string, so it never becomes the weak link in the makeup.
* Available with a range of thread combinations to interface wireline, slickline and braided-line equipment from different manufacturers, simplifying mixed-fleet toolstring makeup on location.

Size:

1.375" 1.750" 2.313"

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F12.B13

TUBING SWAGE

Tubing swages are used to swage out mashed or lightly collapsed tubing areas and other obstructions in the tubing string to ensure free passage of the subsurface devices.

* It is sometimes used to open “orange peel” type bull plugs on the lower end of the tubing. Tubing swages have a top threaded connection, fishneck and is tapered at both ends.
* Since the waist of the tool is approximately equal to the drift diameter of the tubing, fluid bypass is provided by a central bore and lateral ports.
* The swage O.D. should be matched to the tubing drift I.D. of the size being run.
* It should always be run on the bottom of an up-stroke (upward jarring) jar so that it can be worked free if it becomes jammed in the restriction.
* Manufactured from high-strength alloy steel to withstand repeated jarring impact without deforming, and available with a tapered nose profile suited to the restriction being cleared.

Size:

1.25" – 1.50" | 1.50" – 2.00" | 2.00" – 2.50" | 2.50" – 3.00" | 3.00" – 4.00" | 4.00" – 5.00" | 5.00" – 6.00"

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F12.B14

OPEN SIDE PIPE VISE

It is a rugged screw-type vise that will hold tubing, drill pipe, manifold fittings and valves — in the field, shop, or warehouse.

* Type 1 — Mounted on Bolt-Down-Type Swivel Base: contains a Vise, Tray, and Swivel Mounting Post with a welded base plate for securing to the floor, etc., with bolts.
* Type 2 — Mounted on Swivel Base: contains a Vise, Tray, and Swivel Mounting Post to be cemented in place.
* The tray is generally used to catch grease or oil drips while making up or breaking out connections.
* The swivel mounting post lets the vise be rotated to whichever working angle is most convenient for the operator.
* The open-side jaw design allows pipe to be dropped in and lifted out without threading it through the vise end-to-end, speeding up rig-up and rig-down on location.
* Replaceable, hardened jaw inserts extend service life and can be swapped out in the field without removing the vise from its mount.

Size:

2-3/8" – 8-5/8" 2-3/8" – 15"

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F12.B15

CHAIN STRAP WRENCH

This rugged wrench combines the strength of a chain wrench with the smoothness of a strap wrench.

* This is a tool that can turn with equal ease on hardened steel shafts, thin wall tubing, steel pipe, and plastic tubing without gouging or distorting.
* It is ideal for working in tight places and can grip on any shape or material.
* The strap-lined jaw spreads grip pressure evenly around the pipe circumference, lowering the risk of marking or crushing thin-wall or coated tubulars compared with a plain chain wrench.
* The chain-and-strap combination adjusts to a wide range of diameters with a single wrench, cutting down on the number of tools needed on location.
* Compact and lightweight enough for one-handed operation in confined rig-floor spaces.

Size:

14" 18" 24" 36"

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F12.B16

ROPE SOCKET

Rope Socket is used to attach wireline with the wireline tool string.

Type:

1. Wedge Type: The Wedge Type or Pear Drop Type with a sleeve utilizes a brass wedge to keep the wireline attached within the Rope Socket. The Rope Socket assembly consists of a body with an external fishing neck, a sleeve and a brass wedge.

2. Spool Type: The Spool Type or Disc and Spring Type consists of a body with an external fishing neck, a spring, a spring support and a disc. The line is fastened to the grooved disc around its circumference.

3. Slip Type: The Slip Type is designed for use with small braided lines up to 5/16". It consists of a body with an external fishing neck, a carriage, slips, a set screw and a bottom sub. The slips are designed to break the line at a specific percentage of the line tensile strength.

4. Clamp Type: The Clamp Type consists of a body with an external fishing neck, a clamp, a set screw and a bottom sub. The line is placed in-between the clamps and secured using set screws.

Size:

1"	1.250" (1 1/4)	1.500" (1 1/2)	1.750" (1 3/4)	1.870" (1 7/8)	2.120"	2.750"

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